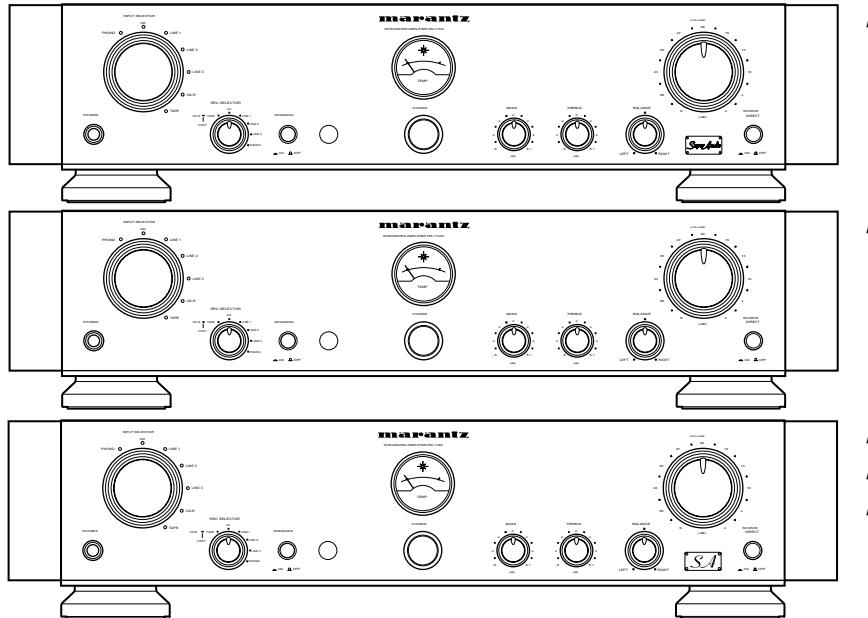


Service Manual

PM17A /F1N, /K1G, /N1G, /S1G
/N1B, /U1B
Integrated amplifier



PM-17SA / mkII

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Please use this service manual with referring to the user guide (D.F.U.) without fail.
修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。

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PM-17SA / PM-17mkII

313J855010 MIT
3120 785 22180
First Issue 1999.10

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PICKERING, ONTARIO L1W 3K1
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FAX : 905 - 831 - 6936

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NO.23, LORONG 8, TOA PAYOH
SINGAPORE 319257
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FAX : +65 2502213

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1 EXPO COURT, P.O. BOX 350
MT. WAVERLEY VIC 3149
AUSTRALIA
PHONE : +61 - 3 - 9543 - 1522
FAX : +61 - 3 - 9543 - 3677

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MRZ STANDARD CO.,LTD
746 - 754 MAHACHAI ROAD.,
WANGBURAPAPIROM, PHRANAKORN,
BANGKOK, 10200 THAILAND
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JAPAN 228-8505
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FAX : +81 42 741 9190

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PAI- YUING CO., LTD.
6 TH FL NO. 148 SUNG KIANG ROAD,
TAIPEI, 10429, TAIWAN R.O.C.
PHONE : +886 - 2 - 25221304
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KOREA

MK ENTERPRISES LTD.
ROOM 604/605, ELECTRO-OFFICETEL, 16-58,
3GA, HANGANG-RO, YONGSAN-KU, SEOUL
KOREA
PHONE : +822 - 3232 - 155
FAX : +822 - 3232 - 154

SHOCK, FIRE HAZARD SERVICE TEST :

CAUTION : After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard No. 1492.

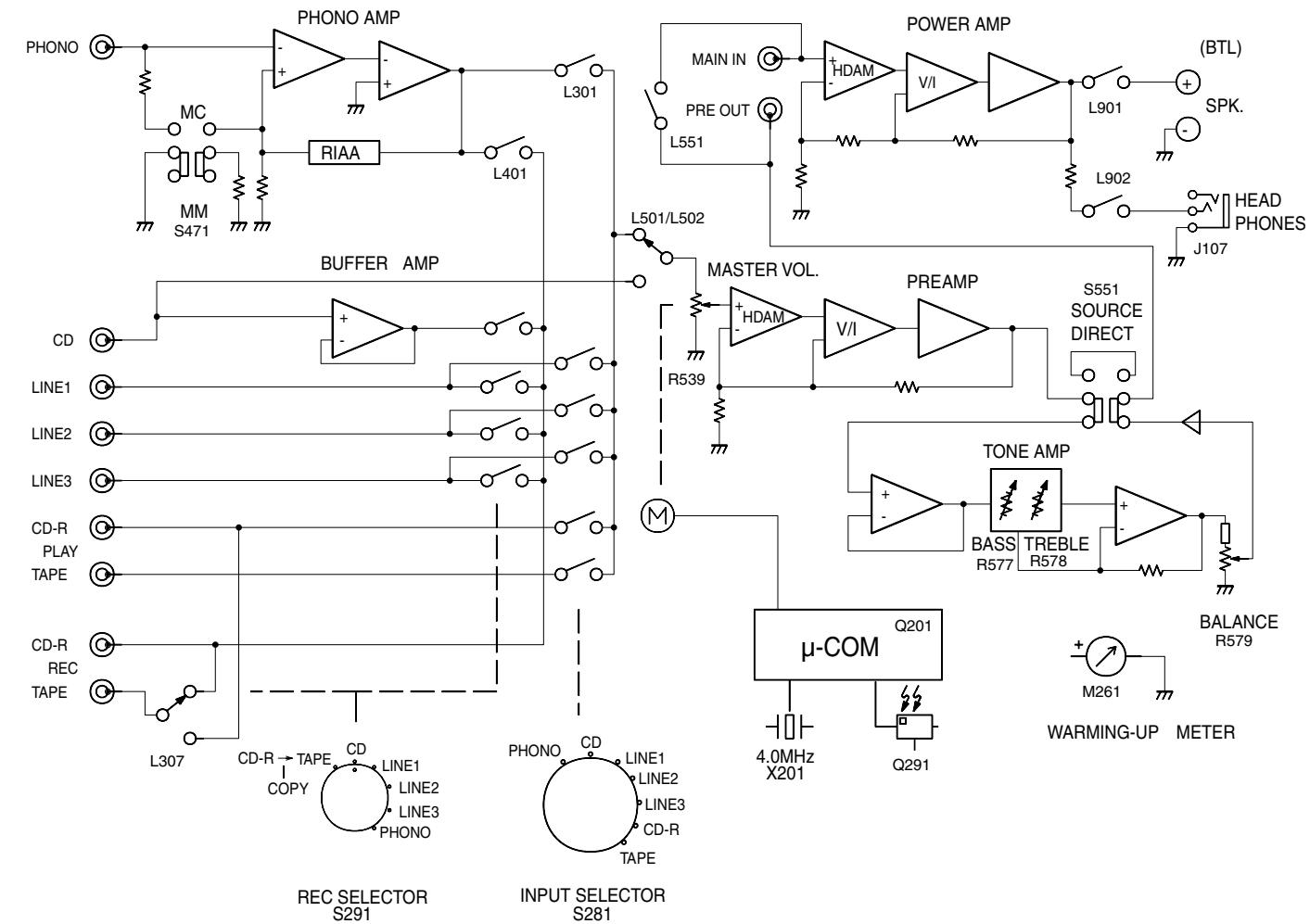
In case of difficulties, do not hesitate to contact the Technical Department at above mentioned address.

1. TECHNICAL SPECIFICATIONS

| | |
|--|--------------------------|
| Rated power output (20 Hz to 20 kHz, 2CH simultaneous drive) | 60 W x 2 (8 Ω load) |
| | 80 W x 2 (6 Ω load) |
| | 100 W x 2 (4 Ω load) |
| Total harmonic distortion (20 Hz to 20 kHz, 2CH drive, 8 Ω load) | 0.01 % |
| Cross-modulation distortion (SMPTE) | 0.01 % |
| Output bandwidth (8 Ω load, 0.04 %) | 10 Hz to 50 kHz |
| Frequency response (CD, SOURCE DIRECT) | 5 Hz to 70 kHz, +0/-1 dB |
| Damping factor (8 Ω load, 20 Hz to 20 kHz) | 100 |
| Input sensitivity/input impedance | |
| PHONE (MC) | 230 μV/100 Ω |
| PHONE (MM) | 2.5 mV/47 kΩ |
| HIGH LEVEL | 220 mV/22 kΩ |
| MAIN IN | 1.6 V/22 kΩ |
| Output voltage/output impedance | |
| PRE OUT | 1.6 V/250 Ω |
| Maximum allowable PHONE input (1 kHz) | |
| MC | 15 mV |
| MM | 150 mV |
| RIAA deviation (20 Hz to 20 kHz) | ±0.2 dB |
| S/N (IHF A network, input shorted) | |
| PHONE (MC) | 76 dB |
| PHONE (MM) | 90 dB |
| HIGH LEVEL | 112 dB |
| Tone control | |
| BASS (100 Hz) | ±8 dB |
| TREBLE (10 kHz) | ±8 dB |
| Supply voltage | |
| F version | 100 V AC, 50/60 Hz |
| /K1 version | 110 V/220 V AC, 50/60 Hz |
| /N1, /S1 version | 230 V AC, 50 Hz |
| /U1 version | 120 V AC, 60 Hz |
| Power consumption | 180 W |
| Dimensions (Maximum) | |
| Width | 458 mm |
| Height | 110 mm |
| Depth | 429 mm |
| Weight | 16 kg |
| Accessories | |
| Remote control unit (RC-17mkIIIPM) | × 1 |
| Dimensions | |
| Width | 44 mm |
| Height | 239 mm |
| Depth | 17.5 mm |
| Weight (without batteries) | 189 g |
| SUM-4 (R6/ "AA" size) dry cell battery | × 2 |

Design and specifications are subject to change without notice.

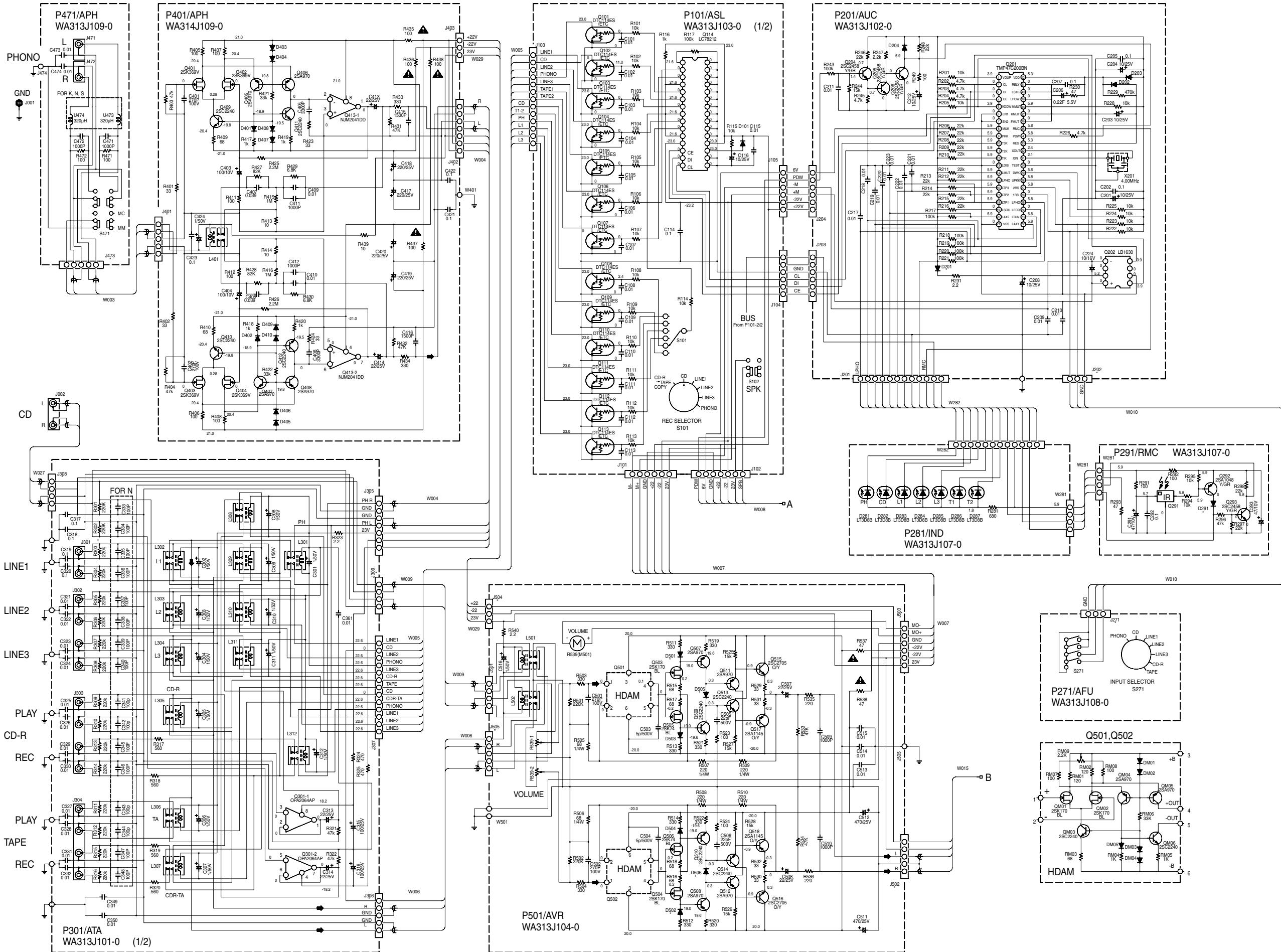
2. BLOCK DIAGRAM

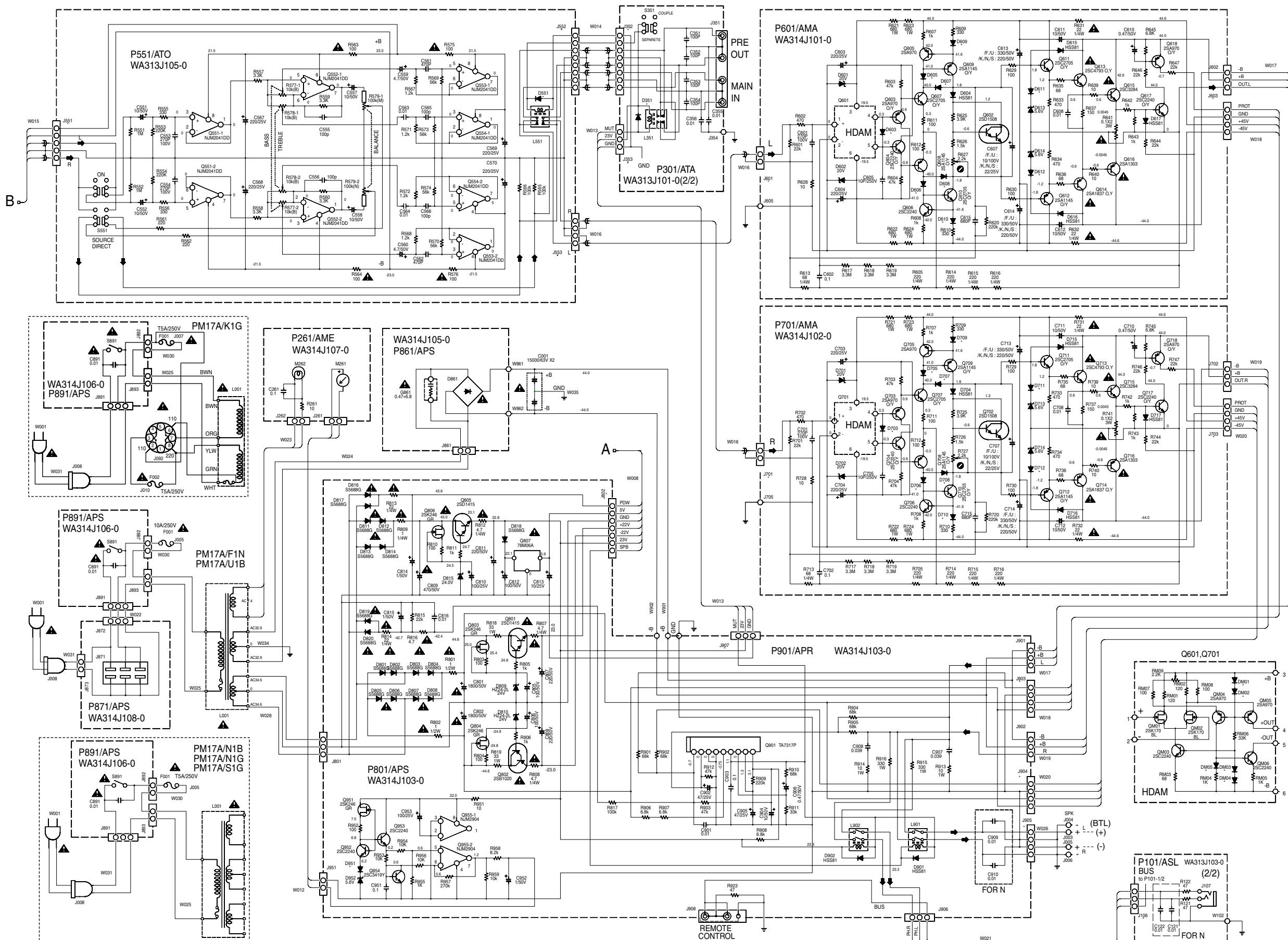


3. TEST EQUIPMENT REQUIRED FOR SERVICING

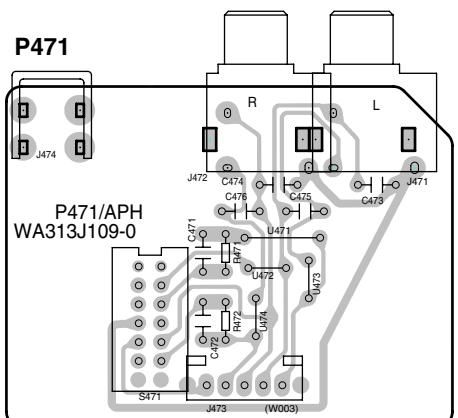
| Item 項目 | Use 使用方法 |
|------------------------------------|--|
| Distortion Analyzer 歪率計 | Distortion measurements 歪の測定 |
| Audio Oscillator 低周波発振器 | Sinewave and squarewave signal source 正弦波及び矩形波の信号源 |
| AC VTVM AC VTVM | Voltage measurements (AC) 交流電圧の測定 |
| Oscilloscope オシロスコープ | Waveform analysis and trouble shooting and ASO alignment 波形分析、トラブルシューティング及びASOの調整 |
| DC VTVM DC VTVM | Voltage measurements (DC) 直流電圧の測定 |
| AC Wattmeter 交流ワットメーター | Monitors primary power to amplifier アンプの一次側消費電力のモニター |
| Line Voltmeter 電源電圧計 | Monitors potential of primary power to amplifier アンプの一次側消費電圧のモニター |
| Variable Autotransformer スライダック | Adjust level of primary power to amplifier アンプの一次側電圧の調節 |
| Circuit Tester テスター | Trouble shooting トラブルシューティング |
| Shorting Plug ショート用プラグ | Shorts amplifier input to eliminate noise pickup 雑音を拾わないようにアンプ入力を短絡する |

4. SCHEMATIC DIAGRAM

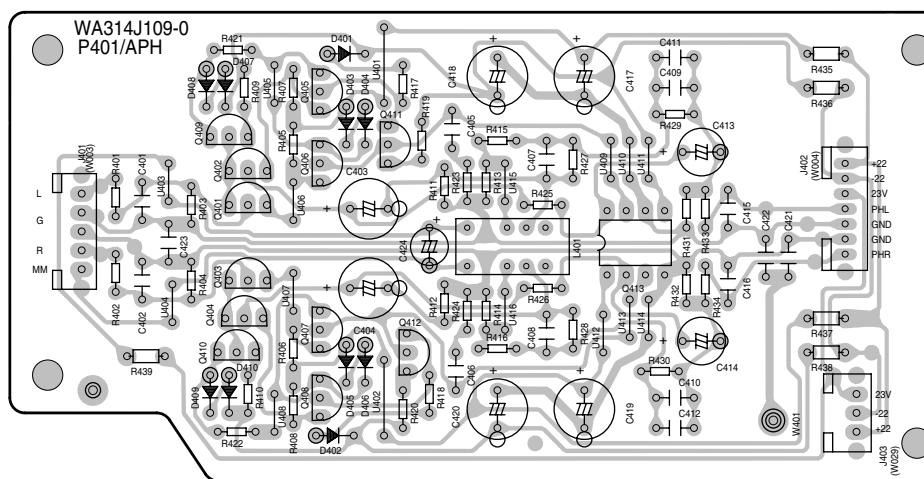




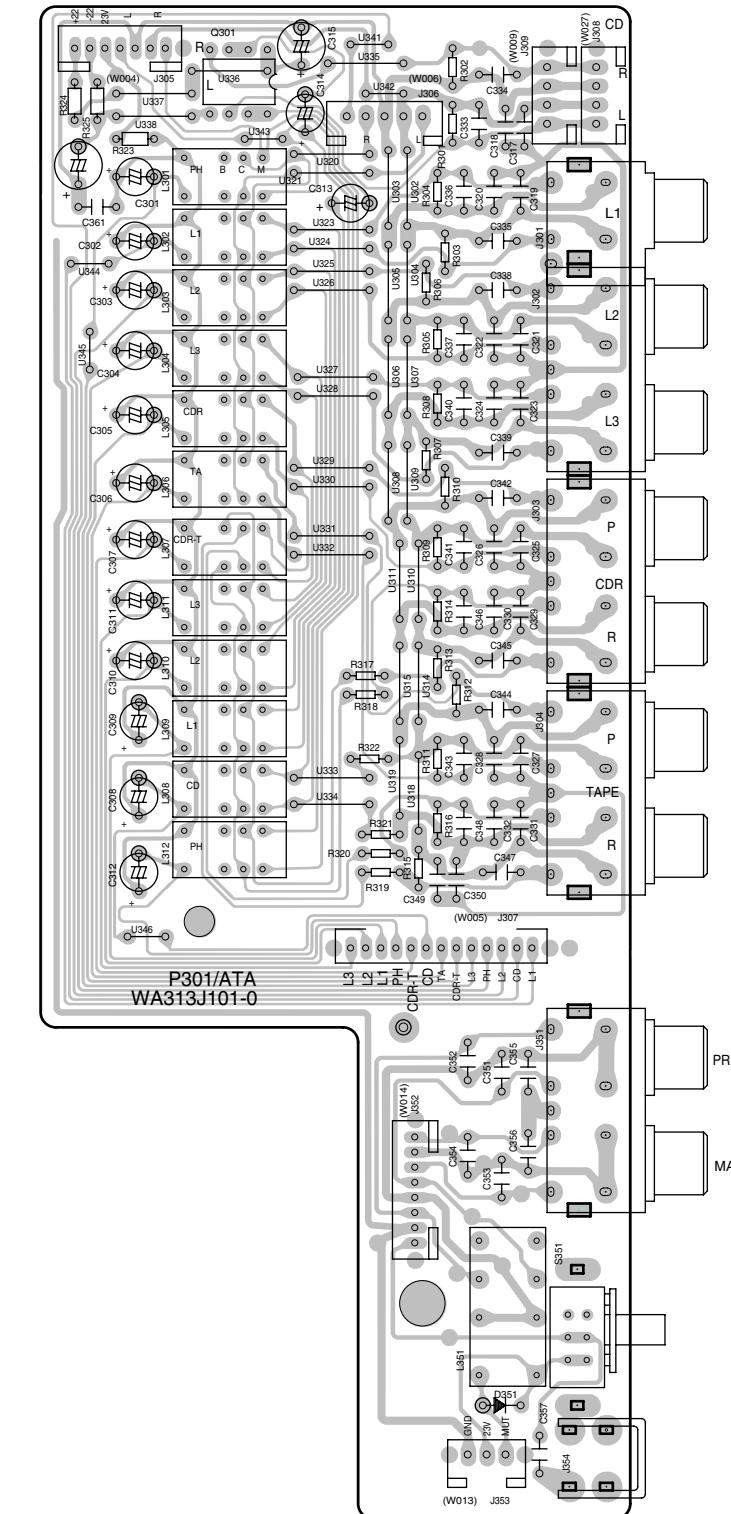
5. PARTS LOCATION (Pattern Side)



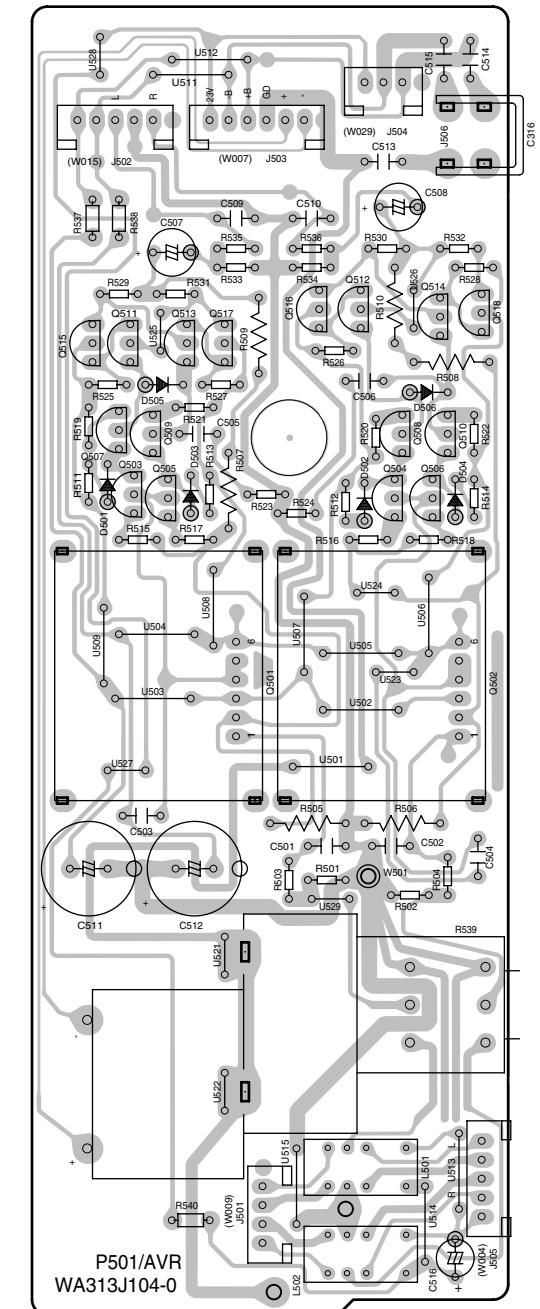
P401

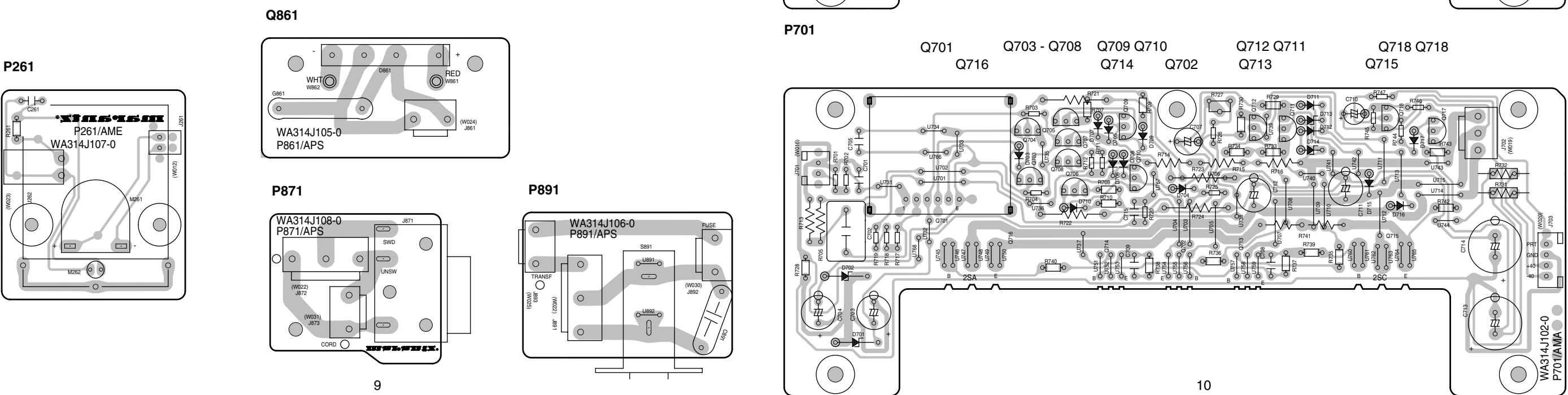
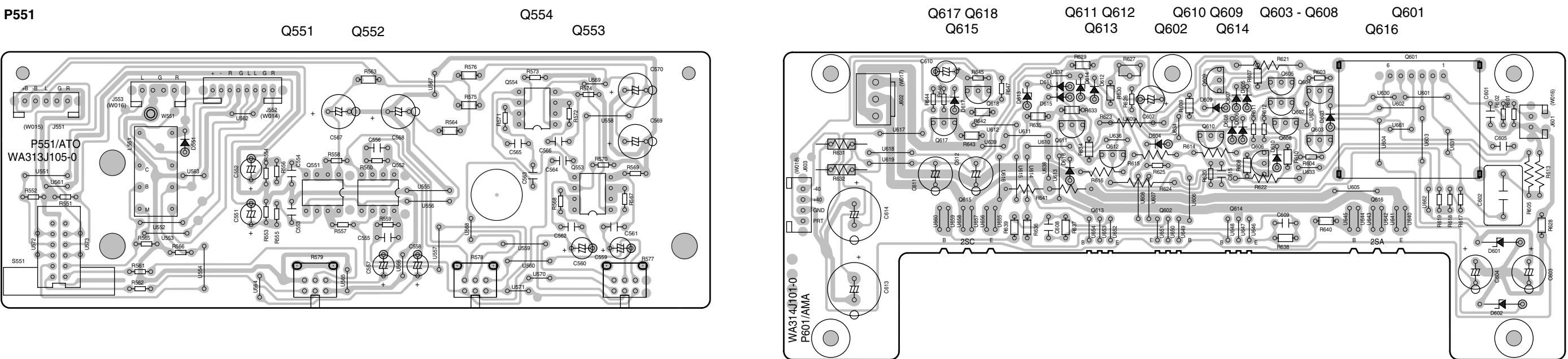
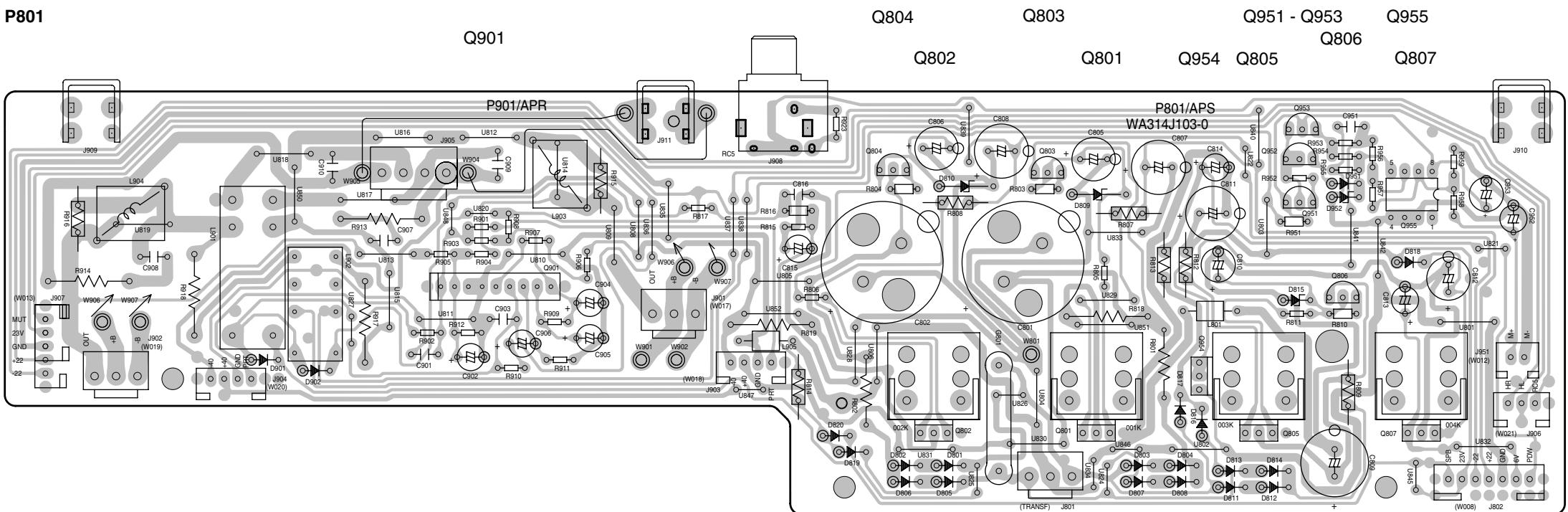


P301
Q301

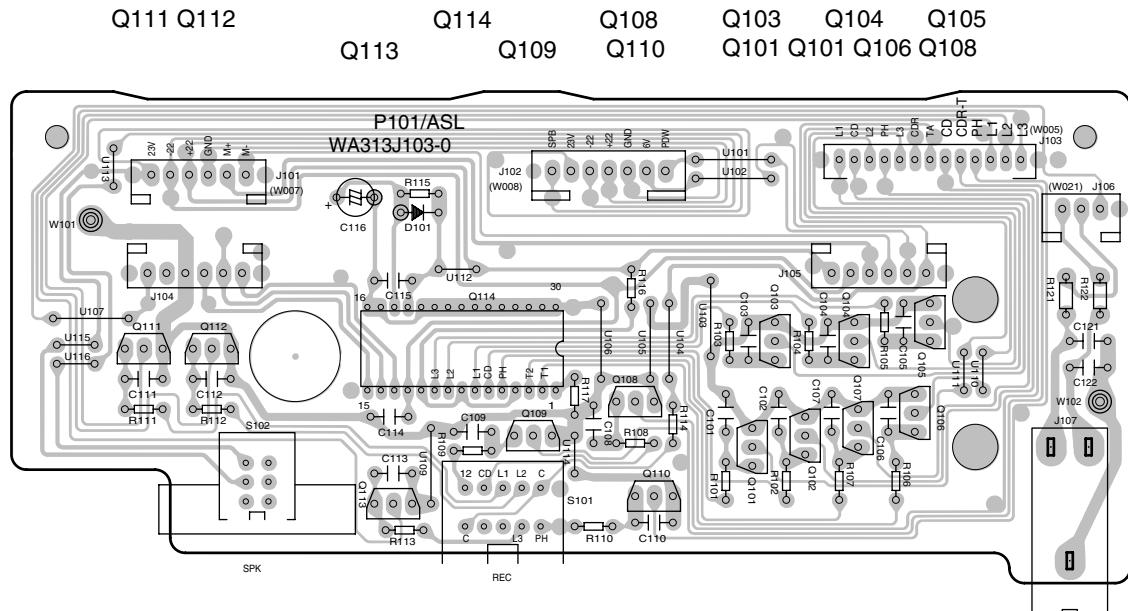


P501 Q503 - Q517 Q504 - Q518
(Odd number) (Even number)
 Q501 Q502

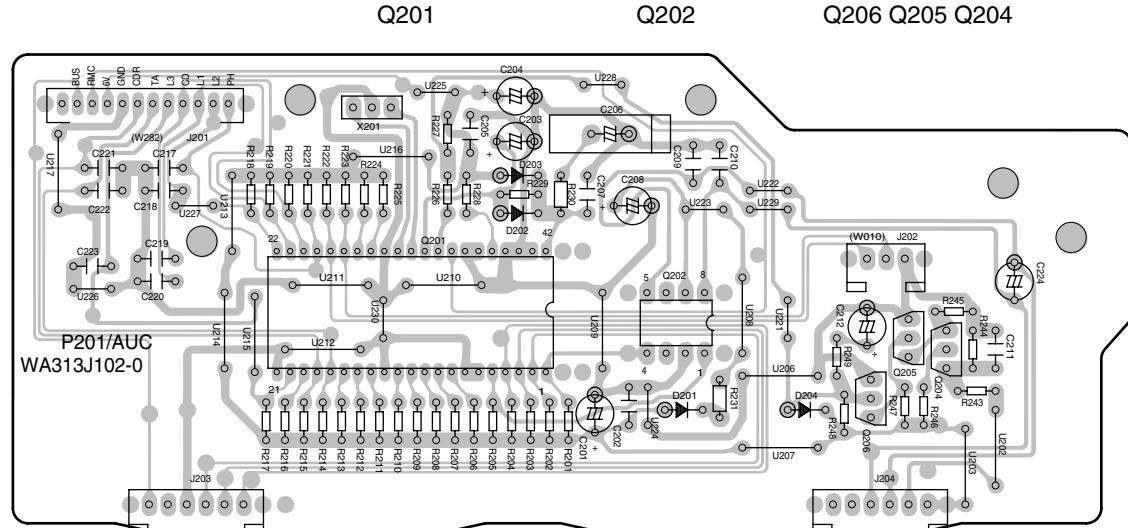




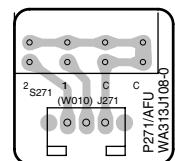
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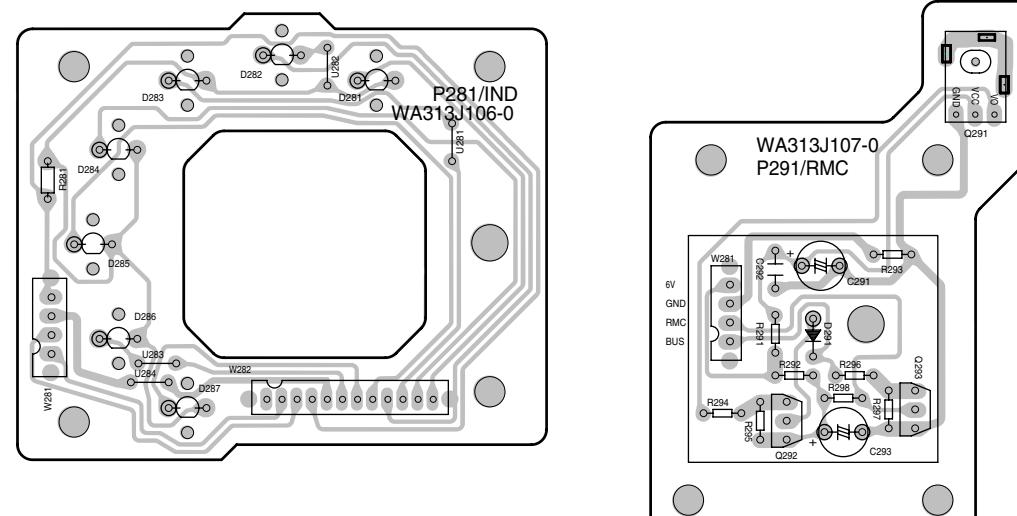
P201



P271

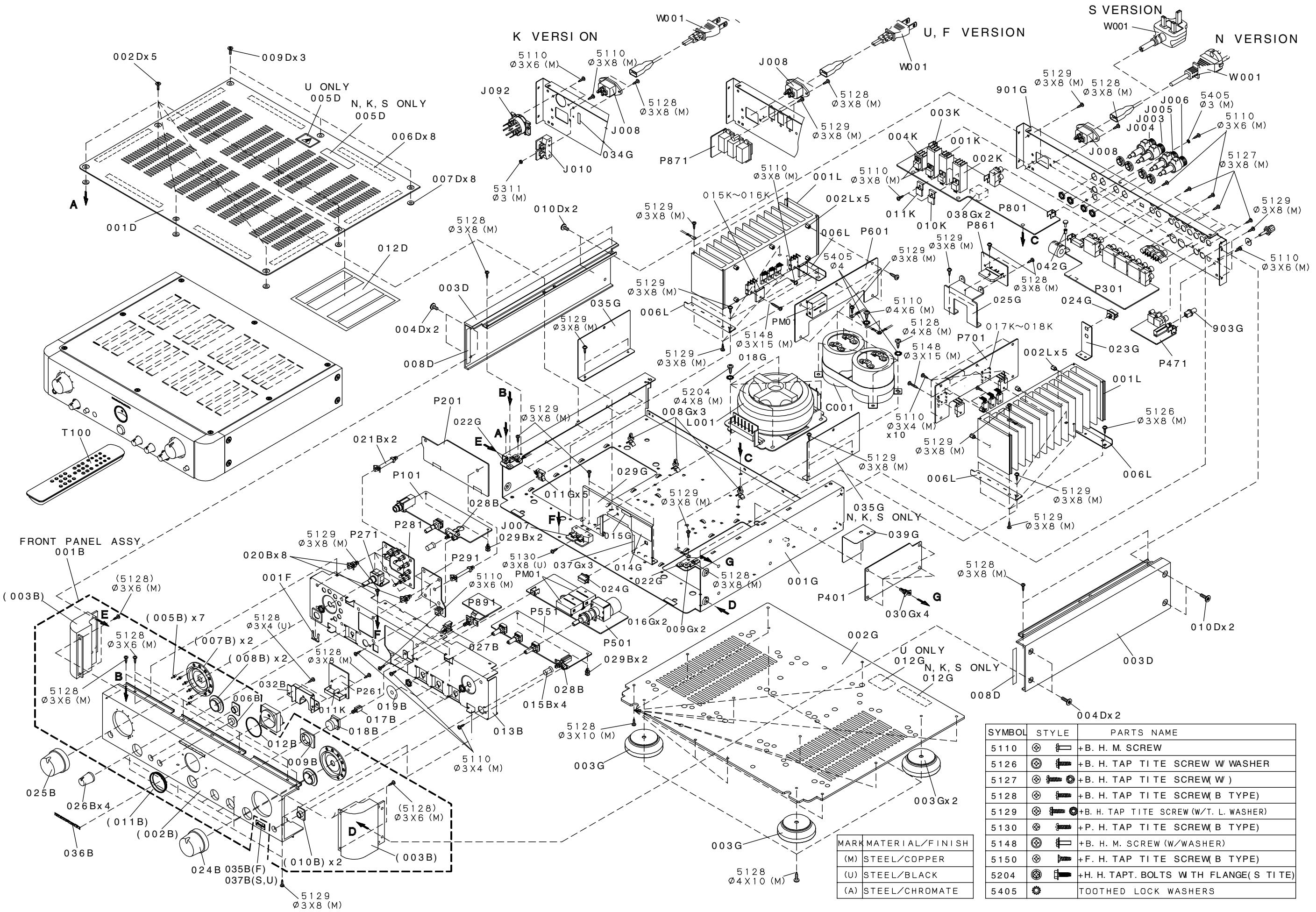


P281



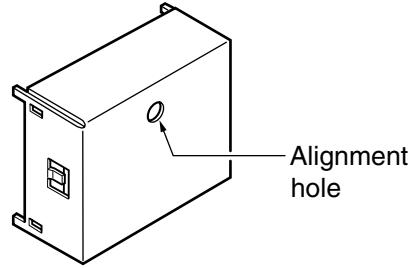
6. EXPLODED VIEW AND PARTS LIST

| POS. NO. | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) | POS. NO. | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) |
|----------|-------------|--------------------|---------------------------------------|----------------|----------|-------------|--------------------|--|----------------|
| 001B | /F1N | | FRONT PANEL ASSY PM-17SA GOLD HAIR | 313J248510 | J002 | | 4822 290 81671 | TERMINAL 2P RCA PIN GL | YT02021240 |
| 001B | /K1G, /S1G | | FRONT PANEL ASSY PM-17SA GOLD BLAST | 313J248550 | J003 | | 4822 265 11424 | TERMINAL WBT-0745 POLE TERMINAL+E34L RED | YT01010360 |
| 001B | /N1G | 9965 000 01834 | FRONT PANEL ASSY PM-17MK2 GOLD BLAST | 313J248530 | J004 | | 4822 265 11425 | TERMINAL WBT-0745 POLE TERMINAL WHT | YT01010370 |
| 001B | /N1B | 9965 000 01814 | FRONT PANEL ASSY PM-17MK2 BLACK BLAST | 313J248520 | J005 | | 4822 265 11424 | TERMINAL WBT-0745 POLE TERMINAL RED | YT01010360 |
| 001B | /U1B | | FRONT PANEL ASSY PM-17SA BLACK BLAST | 313J248540 | J006 | | 4822 265 11425 | TERMINAL WBT-0745 POLE TERMINAL WHT | YT01010370 |
| 003B | GOLD | 4822 426 10497 | ESCUCHEON GOLD | 269J063110 | ▲ J007 | /F, /K, /U | | JACK FUSE HOLDER 10A 250V 31.8MM | YJ08000600 |
| 003B | BLACK | 4822 426 10496 | ESCUCHEON BLACK | 269J063010 | J007 | /N, /S | 4822 267 31818 | JACK FUSE HOLDER H201 20MM | YJ08000610 |
| 015B | GOLD | 4822 410 63898 | BUTTON FOR S.D/SPEAKER GOLD | 144J270010 | ▲ J008 | | 4822 265 11399 | JACK AC INLET SOT-16C | YJ04002360 |
| 015B | BLACK | 4822 410 10227 | BUTTON FOR S.D/SPEAKER BLACK | 144J270110 | ▲ J010 | /K | 4822 267 31818 | JACK FUSE HOLDER H201 20MM | YJ08000610 |
| 017B | | 4822 404 21012 | JOINT LINK | 025J125010 | J092 | /K | | VOLTAGE SELECT. 2POLE-2POSITION | BY05080060 |
| 018B | GOLD | 4822 410 11276 | POWER BUTTON GOLD | 176J270150 | J099 | /K | | JACK MAINS ADAPTER | YJ04001240 |
| 018B | BLACK | 4822 410 11275 | POWER BUTTON BLACK | 176J270050 | ▲ L001 | /F | | MAINS TRANSFORMER | TS42002120 |
| 024B | GOLD | 9965 000 01550 | KNOB FOR MAS.VOL GOLD | 313J154110 | ▲ L001 | /K | | MAINS TRANSFORMER | TS42002140 |
| 024B | BLACK | 9965 000 01549 | KNOB FOR MAS.VOL BLACK | 313J154010 | ▲ L001 | /N, /S | 9965 000 01558 | MAINS TRANSFORMER | TS42002130 |
| 025B | GOLD | 9965 000 01552 | KNOB FOR INPUTSEL GOLD | 313J154120 | ▲ L001 | /U | | MAINS TRANSFORMER | TS42002150 |
| 025B | BLACK | 9965 000 01551 | KNOB FOR INPUTSEL BLACK | 313J154020 | L002 | | 4822 526 10691 | FERRITE CORE TFCK-16-8-13 | FC50160030 |
| 026B | GOLD | 4822 410 12036 | KNOB FOR BAL/TONE/REC GOLD | 289J154140 | ▲ W001 | /F | | MAINS CORD | ZC01802080 |
| 026B | BLACK | 4822 410 12035 | KNOB FOR BAL/TONE/REC BLACK | 289J154040 | ▲ W001 | /K | | MITY DC-302-J 12A | ZC01803090 |
| 035B | /F | | SUPER AUDIO BADGE | 318J251010 | ▲ W001 | /N | 4822 321 11439 | MAINS CORD 2P | ZC01803080 |
| 036B | GOLD | 9965 000 01554 | NEW MARANTZ BADGE GL | 313J251110 | ▲ W001 | /S | | 10A 250V | ZC01804070 |
| 036B | BLACK | 9965 000 01553 | NEW MARANTZ BADGE BL | 313J251010 | ▲ W001 | /U | | MAINS CORD | ZC01803100 |
| 037B | /S, /U | | S A BADGE | 313J251020 | | | | MAINS CORD UL/CSA | |
| 001D | GOLD | 4822 442 01018 | TOP LID GOLD | 269J257110 | | | | 10A 125V | |
| 001D | BLACK | 4822 442 01017 | TOP LID BLACK | 269J257010 | | | | PACKING | |
| 002D | GOLD | 4822 502 14425 | SCREW FOR TOP LID GOLD | 323S010020 | 001T | /F | | USER GUIDE PM-17SA | 313J851110 |
| 002D | BLACK | 4822 502 21693 | SCREW FOR TOP LID BLACK | 323S010030 | 001T | /K, /S | | USER GUIDE PM-17SA | 313J851350 |
| 003D | GOLD | 4822 426 10499 | SIDE PANEL GOLD | 269J249110 | 001T | /N | 9965 000 01555 | USER GUIDE PM-17MK2 | 313J851310 |
| 003D | BLACK | 4822 426 10498 | SIDE PANEL BLACK | 269J249010 | 001T | /U | | USER GUIDE PM-17SA | 313J851250 |
| 004D | GOLD | 4822 502 14425 | SCREW FOR SIDE PANEL FRONT GL | 323S010020 | T100 | | 9965 000 01556 | REMOTE COMMANDER RC-17MK2PM | ZK313J0010 |
| 004D | BLACK | 4822 502 21693 | SCREW FOR SIDE PANEL FRONT BL | 323S010030 | | | | | |
| 009D | GOLD | 4822 502 14462 | SCREW FOR TOP LID REAR GOLD | 318K010020 | | | | | |
| 009D | BLACK | 4822 502 14461 | SCREW FOR TOP LID REAR BLACK | 318K010030 | | | | | |
| 010D | GOLD | 4822 502 14462 | SCREW FOR SIDE PANEL REAR GL | 318K010020 | | | | | |
| 010D | BLACK | 4822 502 14461 | SCREW FOR SIDE PANEL REAR BL | 318K010030 | | | | | |
| 002G | | | LID BOTTOM LID | 313J257020 | | | | | |
| 003G | | 4822 462 42134 | LEG LEG | 291K057010 | | | | | |
| 903G | | 4822 410 60343 | BUTTON FOR MM/MC SEL.SW. | 058J270030 | | | | | |
| ▲ C001 | | 9965 000 01557 | ELECT 15000 μ F 63V X2 FOR AUDIO | EI15906350 | | | | | |
| ▲ F001 | /F | | FUSE 10A 250V MITI GRU | FS11000570 | | | | | |
| ▲ F001 | /K, /N, /S | 4822 070 35002 | FUSE 5A 250V BS LISTED | FS10500850 | | | | | |
| ▲ F001 | /U | | FUSE 10A 250V | FS11000530 | | | | | |
| ▲ F002 | /K | | FUSE T5A 250V BS | FS10500850 | 001S | /F, /U | | | |
| | | | | | 002S | | | | |
| | | | | | 003S | | | | |
| | | | | | | | | NOT STANDARD SPARE PARTS | |
| | | | | | | | | PACKING CASE PM-17SA | 313J801010 |
| | | | | | | | | CUSHION FOR LEFT | 314J809010 |
| | | | | | | | | CUSHION FOR RIGHT | 314J809020 |



7. DC OFFSET VOLTAGE ALIGNMENT

- Before switching the mains switch. Turn down the master volume to the minimum position and set the balance volume and tone volumes at the center positions. Set variable resistors R627(on the PCB P601:L ch) and R727(on the PCB P701:R ch) fully counterclockwise.
- Connect the digital voltage meter to the speaker terminal. And set the digital voltage meter for the DC position.
- Turn the mains switch ON. Put thin adjustment screw driver in to the hole of the HDAM (Q601:L ch / Q701:R ch) copper cover. Adjust variable resistors in the HDAM (Q601:L ch / Q701:R ch) value at $0mV \pm 3mV$ with in 10 seconds after speaker relay turn ON.

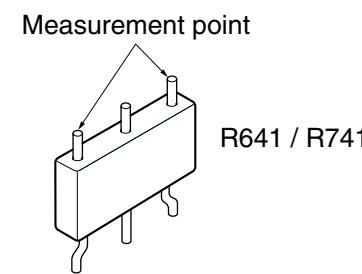


8. IDLING CURRENT ALIGNMENT

REMARK

Before "Idling current alignment", "DC offset voltage alignment" have to be done!!

- Each of cement resistor R641(on the PCB P601:Lch) and cement resistor R741(on the PCB P701:Rch) are provided with three test points. Connect the digital voltage meter, set for the DC voltage input, to the test points at the two extremities of three test points of R641(L ch) and R741(R ch).
- After the setup above, turn the mains switch ON and heat up the amplifier about 10 minutes.
- Adjust variable resistors R627(on the PCB P601:L ch) and R727(on the PCB P701:R ch) according to the digital volt meter reading. The target setting value is $9mV \pm 1mV$ (45mA) for both L ch and R ch.



DC オフセット電圧調整

- 本体の電源スイッチを入れるまえに、ボリュームを最小に、バランス及びトーンコントロールをセンターに合わせます。P601基板上のR627 (L ch)及びP701基板上のR727 (R ch)の半固定抵抗を反時計回りにしほりります。
- 本体背面のスピーカー端子にデジタルボルトメータを接続します。(レンジはDCに設定する。)
- HDAM(Q601 : L ch/Q701 : R ch)のカバーにあいた穴に調整用ドライバーをさし込み、中の半固定抵抗を回せるようにします。電源スイッチをオンにし、スピーカーリレーがオンになってから10秒以内に半固定抵抗を回しデジタルボルトメータの値が $0mV \pm 3mV$ になるように調整します。

9. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTORS

R*** 1) GD05×××140, Carbon film fixed resistor, $\pm 5\%$ 1/4W
R*** 2) GD05×××160, Carbon film fixed resistor, $\pm 5\%$ 1/6W

① Resistance value

Examples ;

① Resistance value
0.1Ω ... 001 10Ω ... 100 1kΩ ... 102 100kΩ ... 104
0.5Ω ... 005 18Ω ... 180 2.7kΩ ... 272 680kΩ ... 684
1Ω ... 010 100Ω ... 101 10kΩ ... 103 1MΩ ... 105
6.8Ω ... 068 390Ω ... 391 22kΩ ... 223 4.7MΩ ... 475

Note : Please distinguish 1/4W from 1/6W by the shape of parts used actually.

CAPACITORS

C***: CERAMIC CAP.

3) DD1×××370, Ceramic capacitor
Disc type
Temp.coeff.P350 ~ N1000, 50V

② Capacity value
Tolerance

② Tolerance (Capacity deviation)
 $\pm 0.25\text{ pF}$... 0
 $\pm 0.5\text{ pF}$... 1
 $\pm 5\%$... 5

* Tolerance of COMMON PARTS handled here are as follows :

0.5 pF ~ 5 pF ... $\pm 0.25\text{ pF}$
6 pF ~ 10 pF ... $\pm 0.5\text{ pF}$
12 pF ~ 560 pF ... $\pm 5\%$

③ Capacity value
0.5 pF ... 005 3 pF ... 030 100 pF ... 101
1 pF ... 010 10 pF ... 100 220 pF ... 221
1.5 pF ... 015 47 pF ... 470 560 pF ... 561

C*** : CERAMIC CAP.

4) DK16×××300, High dielectric constant ceramic capacitor
Disc type
Temp.chara. 2B4, 50V

④ Capacity value

100 pF ... 101 1000 pF ... 102 10000 pF ... 103
470 pF ... 471 2200 pF ... 222

C***: 5) ELECTROLY CAP. ($\frac{1}{2}$), 6) FILM CAP. ($\frac{1}{4}$)

5) EA××××××10, Electrolytic capacitor
One-way lead type, Tolerance $\pm 20\%$

⑤ Working voltage
Capacity value

0.1 μF ... 104 4.7 μF ... 475 100 μF ... 107
0.33 μF ... 334 10 μF ... 106 330 μF ... 337
1 μF ... 105 22 μF ... 226 1100 μF ... 118
2200 μF ... 228

⑥ Working voltage

6.3V ... 006 25V ... 025
10V ... 010 35V ... 035
16V ... 016 50V ... 050

6) DF15×××350 → Plastic film capacitor

DF15×××310 → One-way type, Mylar $\pm 5\%$ 50V

DF16×××310 → Plastic film capacitor

One-way type, Mylar $\pm 10\%$ 50V

⑦ Capacity value

0.001 μF(1000 pF) ... 102 0.1 μF ... 104
0.0018 μF ... 182 0.56 μF ... 564
0.01 μF ... 103 1 μF ... 105
0.015 μF ... 153

NOTE : 1) The above CODES (R***, R***, C***, C*** and C***) are omitted on the schematic diagram in some case.

2) On the occasion, be confirmed the common parts on the parts list.

3) Refer to "Common Parts List" for the other common parts (R105, DD4, DK4).

NOTE ON SAFETY FOR FUSIBLE RESISTOR :

The suppliers and their type numbers of fusible resistors are as follows;

| Part No. (MJI) | Type No. (KOA) | Description |
|----------------|----------------|--------------------|
| NH05×××140 | RF25S××××ΩJ | ($\pm 5\%$ 1/4W) |
| NH05×××120 | RF50S××××ΩJ | ($\pm 5\%$ 1/2W) |
| NH85×××110 | RF73B2A××××ΩJ | ($\pm 5\%$ 1/10W) |
| NH95×××140 | RF73B2E××××ΩJ | ($\pm 5\%$ 1/4W) |

① Resistance value
② Resistance value
③ Resistance value
④ Resistance value
⑤ Resistance value
⑥ Resistance value
⑦ Resistance value

| Part No. (MJI) | Type No. (MEC) | Description |
|----------------|----------------|-------------------|
| NF05×××140 | ERD-2FCJ××× | ($\pm 5\%$ 1/4W) |
| NF05×××140 | ERD-2FCG××× | ($\pm 2\%$ 1/4W) |
| RF02×××140 | ERD-2FCG××× | ($\pm 2\%$ 1/4W) |

① Resistance value
② Resistance value
③ Resistance value
④ Resistance value
⑤ Resistance value
⑥ Resistance value
⑦ Resistance value

ABBREVIATION AND MARKS

| | | | |
|-------|------------------|---------|---------------|
| ANT. | : ANTENNA | BATT. | : BATTERY |
| CAP. | : CAPACITOR | CER. | : CERAMIC |
| CONN. | : CONNECTING | DIG. | : DIGITAL |
| HP | : HEADPHONE | MIC. | : MICROPHONE |
| μ-PRO | : MICROPROCESSOR | REC. | : RECORDING |
| RES. | : RESISTOR | SPK | : SPEAKER |
| SW | : SWITCH | TRANSF. | : TRANSFORMER |
| TRIM. | : TRIMMING | TRS. | : TRANSISTOR |
| VAR. | : VARIABLE | X'TAL | : CRYSTAL |

NOTE ON SAFETY :

Symbol Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意 :

がついている部品は、安全上重要な部品です。必ず指定されている部品番号の部品を使用して下さい。

| POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) | POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) |
|-----------|-------------|--------------------|--|----------------|-----------|-------------|--------------------|---|----------------|
| C101 S | | 9965 000 01569 | P101-SW & HP CIRCUIT BOARD P101-CAPACITORS | | Q201 | | 9965 000 01584 | MICROPROCESSOR 4BIT 2K TMP47C200BN-1A68(Z) | HU313JT000 |
| C113 | | 4822 122 40617 | CER. 0.01µF +80%-20% DC50V | DD38103010 | Q202 | | 4822 209 73287 | IC LB1630 | HC10235030 |
| C114 | | 9965 000 01569 | CER. 0.1µF +80%-20% DC50V | DD38103010 | Q204 | | 4822 130 60839 | TRS. 2SC2458 Y OR GR | HT324582B0 |
| C115 | | 4822 124 41534 | ELECT. 10µF M 25V RA-2 | OA10602520 | Q205 | | 4822 130 60839 | TRS. 2SC2458 Y OR GR | HT324582B0 |
| C116 | | 4822 124 12276 | FILM 0.01µF ± 5% | OF15103540 | Q206 | | 4822 130 60839 | TRS. 2SC2458 Y OR GR | HT324582B0 |
| C121 | /K,/S | 4822 124 12276 | FILM 0.01µF ± 5% | OF15103540 | X201 | | 4822 242 72527 | P201-MISCELLANEOUS CERAMIC VIB. CERALOCK CST4.00MGW | FQ04004030 |
| C122 | /N | 4822 124 12276 | | | | | | P261-METER & LAMP CIRCUIT BOARD | |
| R121 | | 4822 052 10479 | P101-RESISTORS 47Ω ±5%1/6W | GG05470160 | C261 | | 4822 122 40617 | CER. 0.1µF +8%-20% DC50V | DD38104010 |
| R122 | | 4822 052 10479 | 47Ω ±5%1/6W | GG05470160 | M261 | | 4822 344 14034 | D.C METER MG-28 | IM11030030 |
| R*** | | | P101-RESISTORS (COMMON) CARBON FILM FIXED RES. ±5% 1/6W : R101-R117 | | M262 | | 4822 134 40925 | LAMP 8V 100mA DC IGN.BLUE | IN10080680 |
| D101 | | 4822 130 32362 | P101-SEMICONDUCTORS DIODE 1SS176 MA165 1SS254 30V 0.1A | HD20002000 | ▲ R261 | | 4822 052 10109 | 10Ω ±5%1/6W | GG05100160 |
| Q101 S | | 4822 130 60588 | DIG.TRS. DTC114ES UN4211 10k 10k | BA20001000 | R271 | | 4822 050 21021 | P271-FUNCTION SELECTOR CIRCUIT BOARD 100Ω ±5%1/4W | GG05101140 |
| Q113 | | 4822 209 32553 | IC LC7822N | HC10309030 | S271 | | 4822 273 20368 | ROTARY SW. SRRSIC | SR01120070 |
| J107 | GOLD | 4822 267 31692 | P101-MISCELLANEOUS JACK HLJ0540-01-410 GRY | YJ01003880 | D281 | | 4822 130 80326 | P281-INDICATOR LED CIRCUIT BOARD L.E.D. LT3D8B RED 30 | HI10062320 |
| J107 | BLACK | 9965 000 11662 | JACK HLJ0540-01-410 BLK | YJ01003870 | D282 | | 4822 130 80326 | L.E.D. LT3D8B RED 30 | HI10062320 |
| S101 | | 9965 000 01579 | ROTARY SW. SRBM16N-F1020 | SR01060100 | D283 | | 4822 130 80326 | L.E.D. LT3D8B RED 30 | HI10062320 |
| S102 | | 9965 000 01580 | PUSH SW. SPUP12-2N-*W2 | SP02012290 | D284 | | 4822 130 80326 | L.E.D. LT3D8B RED 30 | HI10062320 |
| | | | P201-U-COM CIRCUIT BOARD | | D285 | | 4822 130 80326 | L.E.D. LT3D8B RED 30 | HI10062320 |
| | | | P201-CAPACITORS | | D286 | | 4822 130 80326 | L.E.D. LT3D8B RED 30 | HI10062320 |
| | | | | | D287 | | 4822 130 80326 | L.E.D. LT3D8B RED 30 | HI10062320 |
| C201 | | 4822 124 41534 | ELECT. 10µF M 25V RA-2 | OA10602520 | ▲ R281 | | 4822 052 10681 | 680Ω ±5%1/6W | GG05681160 |
| C202 | | 4822 122 40617 | CER. 0.1µF +8%-20% DC50V | DD38104010 | | | | P291-IR SENSOR CIRCUIT BOARD | |
| C203 | | 4822 124 41534 | ELECT. 10µF M 25V RA-2 | OA10602520 | C291 | | 9965 000 00603 | ELECT 47µF 10V | EG47601050 |
| C204 | | 4822 124 41534 | ELECT. 10µF M 25V RA-2 | OA10602520 | C292 | | 4822 122 40617 | CER. 0.1µF +8%-20% DC50V | DD38104010 |
| C205 | | 4822 122 40617 | CER. 0.1µF +8%-20% DC50V | DD38104010 | C293 | | 9965 000 00603 | ELECT 47µF 10V | EG47601050 |
| C206 | | 4822 124 90406 | BIG ELECT FMOH223ZTP16 | EX22300530 | D291 | | 4822 130 32362 | DIODE 1SS176 MA165 1SS254 30V 0.1A | HD20002000 |
| C207 | | 4822 122 40617 | CER. 0.1µF +8%-20% DC50V | DD38104010 | | | | | |
| C208 | | 4822 124 41534 | ELECT. 10µF M 25V RA-2 | OA10602520 | Q291 | | 4822 209 16735 | PHOTO UNIT PNA4655M00HB | HW10006020 |
| C209 | | 9965 000 01569 | CER. 0.01µF +80%-20% DC50V | DD38103010 | | | 4822 130 60107 | IR SENSOR | |
| C210 | | 9965 000 01569 | CER. 0.01µF +80%-20% DC50V | DD38103010 | Q292 | | 4822 130 60839 | TRS. 2SA1048 Y OR GR | HT110482B0 |
| C211 | | 9965 000 01569 | CER. 0.01µF +80%-20% DC50V | DD38103010 | Q293 | | 4822 130 60839 | TRS. 2SC2458 Y OR GR | HT324582B0 |
| C212 | | 4822 124 41534 | ELECT. 10µF M 25V RA-2 | OA10602520 | | | | P301-INPUT JACK CIRCUIT BOARD | |
| C217 S | | 9965 000 01569 | CER. 0.01µF +80%-20% DC50V | DD38103010 | | | | P301-CAPACITORS | |
| C223 | | 4822 124 11947 | ELECT 10µF 16V | EQ10601630 | | | | | |
| C224 | | | P201-RESISTORS | | C301 S | | 4822 124 41543 | ELECT. 1µF M 50V RA-2 | OA10505020 |
| R230 | | 4822 052 10479 | 47Ω ±5%1/6W | GG05470160 | C312 | | | | |
| R231 | | 4822 052 10228 | 2.2Ω ±5%1/6W | GG05022160 | C313 | | 9965 000 01581 | ELECT. 22µF M 25V RA-2 | OA22602520 |
| R*** | | | P201-RESISTORS (COMMON) CARBON FILM FIXED RES. ±5% 1/6W : R201-R227 R228 R229 R246-249 R291-R298 | | C314 | | 9965 000 01581 | ELECT. 22µF M 25V RA-2 | OA22602520 |
| D201 | | | P201-SEMICONDUCTORS | | C315 | | 4822 124 41535 | ELECT. 100µF M 25V RA-2 | OA10702520 |
| D203 | | 4822 130 32362 | DIODE 1SS176 MA165 1SS254 30V 0.1A | HD20002000 | C316 | | 4822 124 41535 | ELECT. 100µF M 25V RA-2 | OA10702520 |
| D204 | | | | | C317 | | 4822 122 40617 | CER. 0.1µF +80%-20% DC50V | DD38104010 |
| | | | | | C319 | | | | |
| | | | | | C320 | | | | |
| | | | | | C333 S | | 9965 000 01344 | FILM 100pF ±5%100V | OF15101540 |
| | | | | | C348 S | | 9965 000 01569 | CER. 0.01µF +80%-20% DC50V | DD38103010 |
| | | | | | C349 | | | | |

| POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) | POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) |
|---------|-------------|--------------------|---------------------------------|----------------|----------------------------|-------------|--------------------|-----------------------------------|----------------|
| C350 | | 9965 000 01569 | CER. 0.01µF +80%-20% DC50V | DD38103010 | ▲ R435 | | 4822 052 10101 | 100Ω ±5%1/6W | GG05101160 |
| C351 | ſ | 9965 000 01344 | FILM 100pF ±5%100V | OF15101540 | ▲ R438 | | 4822 052 10109 | 10Ω ±5%1/6W | GG05100160 |
| C354 | | | | | R439 | | | P401-RESISTORS (COMMON) | |
| C355 | ſ | 9965 000 01569 | CER. 0.01µF +80%-20% DC50V | DD38103010 | R*** | | | CARBON FILM FIXED RES. | |
| C361 | | | | | | | | ±5% 1/6W : R401-R404 | |
| | | | P301-RESISTORS | | | | | R409-R434 R471 R472 | |
| R323 | | 4822 052 10228 | 2.2Ω ±5%1/6W | GG05022160 | | | | | |
| R324 | | 4822 052 10471 | 470Ω ±5%1/6W | GG05471160 | | | | P401-SEMICONDUCTORS | |
| R325 | | 4822 052 10471 | 470Ω ±5%1/6W | GG05471160 | | | | | |
| R*** | | | P301-RESISTORS (COMMON) | | D401 | | 4822 130 32362 | DIODE 1SS176 MA165 1SS254 | HD20002000 |
| | | | CARBON FILM FIXED RES. | | ſ | | | 30V 0.1A | |
| | | | ±5% 1/6W : R301-R322 | | D410 | | | | |
| | | | P301-SEMICONDUCTORS | | Q401 | | 4822 130 43547 | F.E.T. 2SK369 V | HF203691V0 |
| D351 | | 4822 130 32362 | DIODE 1SS176 MA165 1SS254 | HD20002000 | ſ | | | VGDS-40V PD0.4W | |
| | | | 30V 0.1A | | Q404 | | | | |
| | | | | | Q405 | | 4822 130 42949 | TRS. 2SA970 GR OR BL | HT109702A0 |
| | | | | | ſ | | | | |
| Q301 | | 4822 209 16926 | IC OPA2604AP BURR-BROWN | HC10008610 | Q408 | | | | |
| | | | | | Q409 | | 4822 130 43233 | TRS. 2SC2240 GR OR BL | HT322402A0 |
| | | | | | ſ | | | | |
| J301 | | 4822 290 81598 | P301-MISCELLANEOUS | | Q412 | | 4822 209 81565 | IC NJM-2041-DD | |
| | | | TERMINAL 2P RCA JACK | | Q413 | | | | |
| | | | YKC21-3255 GOLD | | L401 | | 9965 000 01570 | | |
| J302 | | 4822 290 81599 | TERMINAL YKC21-3269 GOLD | YT02040970 | | | | P401-MISCELLANEOU | |
| J303 | | 4822 290 81599 | TERMINAL YKC21-3269 GOLD | YT02040970 | | | | RELAY ED2-24 | |
| J304 | | 4822 290 81599 | TERMINAL YKC21-3269 GOLD | YT02040970 | | | | | |
| J351 | | 4822 290 81599 | TERMINAL YKC21-3269 GOLD | YT02040970 | | | | | |
| L301 | | | | | P471-PHONO RCA JACK | | | | |
| ſ | | 9965 000 01570 | RELAY ED2-24 | LY20240470 | | | | CIRCUIT BOARD | |
| L312 | | | | | C471 | | 4822 121 70437 | P471-CAPACITORS | |
| L351 | | 9965 000 01576 | RELAY MR82-24USR | LY20240480 | C472 | | 4822 121 70437 | FILM 1000pF ±5%100V APSV | OF15102540 |
| S351 | | 9965 000 01582 | SLIDE SW. SSSU12 | SS02020950 | C473 | | 9965 000 01569 | FILM 1000pF ±5%100V APSV | OF15102540 |
| | | | | | C474 | | 9965 000 01569 | CER. 0.01µF +80%-20% DC50V | DD38103010 |
| | | | | | | | | CER. 0.01µF +80%-20% DC50V | DD38103010 |
| | | | | | | | | | |
| | | | P401-PHONO AMP | | J471 | | 4822 290 81638 | P471-MISCELLANEOUS | |
| | | | CIRCUIT BOARD | | J472 | | 4822 290 81638 | TERMINAL 14X14 RA 1L1P BLK | YT02010790 |
| | | | P401-CAPACITORS | | | | | AU FLM-GND | |
| C401 | | 9965 000 01560 | FILM 270pF ±5%100V OFC | OF55271540 | | | | TERMINAL 14X14 RA 1L1P BLK | YT02010790 |
| C402 | | 9965 000 01560 | FILM 270pF ±5%100V OFC | OF55271540 | | | | AU FLM-GND | |
| C403 | | 9965 000 01567 | ELECT. 100µF 10V ARA | OA10701050 | S471 | | 4822 276 13409 | PUSH SW. SPUP19-4N-W2.0 | SP04010660 |
| C404 | | 9965 000 01567 | ELECT. 100µF 10V ARA | OA10701050 | U473 | /K./N./S | 4822 158 60606 | CHOKE COIL 22µH 5R200PN | LC12030050 |
| C409 | | 4822 124 12276 | FILM 0.01µF ± 5% | OF15103540 | U474 | /K./N./S | 4822 158 60606 | CHOKE COIL 22µH 5R200PN | LC12030050 |
| C410 | | 4822 124 12276 | FILM 0.01µF ± 5% | OF15103540 | | | | | |
| C411 | | 4822 121 70437 | FILM 1000pF ±5%100V APSV | OF15102540 | | | | P501-MASTER VOL. & AMP | |
| C412 | | 4822 121 70437 | FILM 1000pF ±5%100V APSV | OF15102540 | | | | CIRCUIT BOARD | |
| C413 | | 4822 124 81151 | ELECT. 22µF 25V ARA | OA22602550 | C501 | | 9965 000 01560 | P501-CAPACITORS | |
| C414 | | 4822 124 81151 | ELECT. 22µF 25V ARA | OA22602550 | C502 | | 9965 000 01560 | FILM 270pF ±5%100V OFC | OF55271540 |
| C415 | | 9965 000 01568 | FILM 1500pF ±5%100V APSV | OF15152540 | C503 | | 9965 000 01585 | FILM 270pF ±5%100V OFC | OF55271540 |
| C416 | | 9965 000 01568 | FILM 1500pF ±5%100V APSV | OF15152540 | C504 | | 9965 000 01585 | MICA 5pF 500V FE922H | DF31050520 |
| C417 | ſ | | | | C505 | | 9965 000 01586 | MICA 5pF 500V FE922H | DF31050520 |
| | | 4822 124 90365 | ELECT. 220µF M 25V RA-2 | OA22702520 | C506 | | 9965 000 01586 | MICA 22pF ±5%500V FE | DF35220520 |
| C420 | | | | | C507 | /F./U | 9965 000 02015 | MICA 22pF ±5%500V FE | DF35220520 |
| C421 | | 4822 122 40617 | CER. 0.1µF DC50V +80-20% | DD38104010 | C507 | /K./N./S | 9965 000 02015 | ELECT. 22µF 25V ARA | OA22602550 |
| C422 | | 4822 122 40617 | CER. 0.1µF DC50V +80-20% | DD38104010 | C508 | /F./U | 9965 000 02015 | ELECT. 22µF 25V ARA | OA22602550 |
| C423 | | 4822 122 40617 | CER. 0.1µF DC50V +80-20% | DD38104010 | C508 | /K./N./S | 9965 000 02015 | ELECT. 22µF 25V ARA | OA22602550 |
| C424 | | 4822 124 41543 | ELECT. 1µF M 50V RA-2 | OA10505020 | C511 | | 4822 124 90051 | ELECT. 220µF M 25V ARA | OA22702550 |
| | | | | | C512 | | 4822 124 90051 | ELECT. 220µF M 25V ARA | OA22702550 |
| | | | P401-CAPACITORS (COMMON) | | C513 | | 9965 000 01569 | CER. 0.01µF +80%-20% DC50V | DD38103010 |
| | | | PLASTIC FILM CAPACITOR | | C514 | | 9965 000 01569 | CER. 0.01µF +80%-20% DC50V | DD38103010 |
| | | | ±5% 50V : C504-C408 | | C515 | | 9965 000 01569 | CER. 0.01µF +80%-20% DC50V | DD38103010 |
| | | | P401-RESISTORS | | C516 | | 4822 124 41543 | ELECT. 1µF M 50V RA-2 | DD38103010 |
| | | | | | | | | | |
| | | | | | | | | P501-RESISTORS | |
| R405 | ſ | 9965 000 01571 | 100Ω ± 1% 1/6W | GM11610000 | R505 | | 9965 000 01565 | 68Ω ± 1% 1/4W ERD | NR01680140 |
| R408 | | | | | R506 | | 9965 000 01565 | 68Ω ± 1% 1/4W ERD | NR01680140 |

| POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) | POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) |
|-------------|-------------|--------------------|---|----------------|-----------|-------------|--------------------|---|----------------|
| R507 S | | 4822 111 20413 | 220Ω ± 1% 1/4W ERD | NR01221140 | R579 | | 4822 100 30138 | VAR. 100kΩ MN FOR BALANCE VOLUME | RM01041310 |
| R510 | | | | | | | | | |
| R537 | | 4822 052 10479 | 47Ω ±5%1/6W | GG05470160 | R*** | | | P551-RESISTORS (COMMON) CARBON FILM FIXED RES. ±5% 1/6W : R551-R562 R565-R574 | |
| R538 | | 4822 052 10479 | 47Ω ±5%1/6W | GG05470160 | | | | | |
| R539 | | 9965 000 01587 | VAR. RK18112MC-30K DX2 | RM03030050 | | | | | |
| R540 | | 4822 052 10228 | 2.2Ω ±5%1/6W | GG05022160 | | | | | |
| R*** | | | P501-RESISTORS (COMMON) CARBON FILM FIXED RES. ±5% 1/6W : R501-R505 R511-R536 | | D551 | | 4822 130 32362 | P551-SEMICONDUCTORS DIODE 1SS176 MA165 1SS254 30V 0.1A | HD20002000 |
| | | | | | Q551 S | | 4822 209 81565 | | HC10026090 |
| D501 S | | 4822 130 32362 | DIODE 1SS176 MA165 1SS254 30V 0.1A | HD20002000 | Q554 | | | P551-MISCELLANEOUS RELAY MR82-24USR | LY20240480 |
| | | | | | | | | | |
| Q501 | | | IC NEW HDAM | KH313J1010 | S551 | | 4822 276 13065 | PUSH SW. SPUP24V1A STROK=2MM NON-SHORT | SP04010650 |
| Q502 | | | IC NEW HDAM | KH313J1010 | | | | | |
| Q503 S | | 4822 130 62649 | F.E.T. 2SJ74 BL | HF100741G0 | | | | | |
| Q506 | | | VGDS=25V PD=24W | | | | | | |
| Q507 | | 4822 130 42949 | TRS. 2SA970 GR OR BL | HT109702A0 | C601 | | | P601-POWER AMP L CIRCUIT BOARD | OF55271540 |
| Q508 | | 4822 130 42949 | TRS. 2SA970 GR OR BL | HT109702A0 | | | | | |
| Q509 | | 4822 130 43233 | TRS. 2SC2240 GR OR BL | HT322402A0 | C602 | | 9965 000 01560 | P601-CAPACITORS FILM 270pF ±5%100V OFC | OF55104540 |
| Q510 | | 4822 130 43233 | TRS. 2SC2240 GR OR BL | HT322402A0 | C603 | | 4822 121 10867 | | |
| Q511 | | 4822 130 42949 | TRS. 2SA970 GR OR BL | HT109702A0 | C604 | | 4822 124 90365 | ELECT. 220μF M 25V RA-2 | OA22702520 |
| Q512 | | 4822 130 42949 | TRS. 2SA970 GR OR BL | HT109702A0 | C605 | | 4822 124 90365 | | |
| Q513 | | 4822 130 43233 | TRS. 2SC2240 GR OR BL | HT322402A0 | C607 | /F,/U | 9965 000 01561 | MICA 10pF ± 0.5pF 500V FE | DF31100520 |
| Q514 | | 4822 130 43233 | TRS. 2SC2240 GR OR BL | HT322402A0 | C607 | /K,/N,/S | 9965 000 02015 | | |
| Q515 | | 4822 130 43283 | TRS. 2SC2705 0 OR Y | HT327052A0 | C608 | | 4822 124 12276 | ELECT. 10μF M 100V RA-2 | OA10610020 |
| Q516 | | 4822 130 43283 | TRS. 2SC2705 0 OR Y | HT327052A0 | C609 | | 4822 124 22273 | | |
| Q517 | | 4822 130 42999 | TRS. 2SA1145 0 OR Y | HT111452A0 | C610 | | 4822 124 50V RA-2 | ELECT. 0.47μF M 50V RA-2 | EQ10605090 |
| Q518 | | 4822 130 42999 | TRS. 2SA1145 0 OR Y | HT111452A0 | C611 | | 9965 000 01562 | | |
| L501 | | 9965 000 01570 | P501-MISCELLANEOUS RELAY ED2-24 | LY20240470 | C612 | | 9965 000 01562 | ELECT. 10μF M 50V RA2BP | EQ10605090 |
| L502 | | | | | C613 | /F,/U | 9965 000 02014 | | |
| | | | P551-TONE AMP CIRCUIT BOARD | LY20240470 | C613 | /K,/N,/S | 9965 000 02014 | ELECT. 220μF M 50V ARS | OA22705040 |
| | | | | | C614 | /F,/U | 9965 000 02014 | | |
| | | | P551-CAPACITORS | C614 | C615 | /K,/N,/S | 9965 000 01564 | ELECT. 330μF M 50V RA-2 | OA33705020 |
| | | | | | | | | | |
| C551 | | 5322 124 21731 | ELECT. 10μF M 50V RA-2 | OA10605020 | R605 | | 4822 111 20413 | P601-RESISTORS 220Ω ± 1% 1/4W ERD | NR01221140 |
| C552 | | 5322 124 21731 | ELECT. 10μF M 50V RA-2 | OA10605020 | ▲ R607 | | 4822 052 10102 | | |
| C553 | | 9965 000 01560 | FILM 270pF ±5%100V OFC | OF55271540 | ▲ R608 | | 4822 052 10102 | 1kΩ ±5%1/6W | GG05102160 |
| C554 | | 9965 000 01560 | FILM 270pF ±5%100V OFC | OF55271540 | ▲ R609 | | 4822 111 31001 | 1kΩ ±5%1/6W | GG05331160 |
| C555 | | 9965 000 01344 | FILM 100pF ±5%100V | OF15101540 | ▲ R610 | | 4822 111 31001 | 330Ω ±5%1/6W | GG05331160 |
| C556 | | 9965 000 01344 | FILM 100pF ±5%100V | OF15101540 | R613 | | 9965 000 01565 | 68Ω ± 1% 1/4W ERD | NR01680140 |
| C557 | | 5322 124 21731 | ELECT. 10μF M 50V RA-2 | OA10605020 | R614 | | 4822 111 20413 | 220Ω ± 1% 1/4W ERD | NR01221140 |
| C558 | | 5322 124 21731 | ELECT. 10μF M 50V RA-2 | OA10605020 | R615 | | 4822 111 20413 | 220Ω ± 1% 1/4W ERD | NR01221140 |
| C559 | | 4822 124 80067 | ELECT. 4.7μF M 50V RA-2 | OA47505020 | R616 | | 4822 111 20413 | 220Ω ± 1% 1/4W ERD | NR01221140 |
| C560 | | 4822 124 80067 | ELECT. 4.7μF M 50V RA-2 | OA47505020 | R617 | | 4822 050 23308 | 3.3MΩ ±5%1/6W | GD05335160 |
| C561 | | 9965 000 01583 | FILM 0.047pF ±5%50V MTFV | OF15473040 | R618 | | 4822 050 23308 | 3.3MΩ ±5%1/6W | GD05335160 |
| C562 | | 9965 000 01583 | FILM 0.047pF ±5%50V MTFV | OF15473040 | R619 | | 4822 050 23308 | 3.3MΩ ±5%1/6W | GD05335160 |
| C563 | | 4822 124 12276 | FILM 0.01μF ±5% | OF15103540 | R621 | | | | |
| C564 | | 4822 124 12276 | FILM 0.01μF ±5% | OF15103540 | S | | 4822 053 10681 | 680Ω ±5%1W | GA05681010 |
| C565 | | 9965 000 01344 | FILM 100pF ±5%100V | OF15101540 | R624 | | | | |
| C566 | | 9965 000 01344 | FILM 100pF ±5%100V | OF15101540 | R627 | | 9965 000 01566 | TRIM. VARIABLE 2.2kΩ | RA02220760 |
| C567 S | | 4822 124 90365 | ELECT. 220μF M 25V RA-2 | OA22702520 | R628 | | 4822 052 10109 | 10Ω ±5%1/6W | GG05100160 |
| C570 | | | | | R629 | | 4822 052 10101 | 100Ω ±5%1/6W | GG05101160 |
| ▲ R563 S | | | P551-RESISTORS | R630 | | | 4822 052 10101 | 100Ω ±5%1/6W | GG05101160 |
| ▲ R576 | | 4822 052 10101 | | | ▲ R631 | | 4822 050 22209 | 22Ω ±5%1/4W | GG05220140 |
| R577 | | 4822 101 30735 | 100Ω ±5%1/6W | GG05101160 | ▲ R632 | | 4822 050 22209 | 22Ω ±5%1/4W | GG05220140 |
| R578 | | 4822 101 30735 | VAR. 10kΩ X2 B | RM01030720 | R633 | | 4822 052 10471 | 470Ω ±5%1/6W | GG05471160 |
| | | | | | R634 | | 4822 052 10471 | 470Ω ±5%1/6W | GG05471160 |
| | | | | | R635 | | 4822 050 26809 | 68Ω ±5%1/6W | GG05680160 |
| | | | | | R636 | | 4822 050 26809 | 68Ω ±5%1/6W | GG05680160 |
| | | | | | ▲ R637 | | 4822 052 10151 | 150Ω ±5%1/6W | GG05151160 |
| | | | | | R638 | | 4822 050 23308 | JUMPER JUMPER WIRE 5MM | 75060501PO |
| | | | | | R639 | | 4822 052 10109 | 10Ω ±5%1/6W | GG05101160 |

| POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) | POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) |
|----------------|-------------|---|---------------------------|----------------|-------------|---|---|---|----------------|
| R640 | | 4822 052 10109 | 10Ω ±5%1/6W | GG05100160 | R705 | | 4822 111 20413 | P701-RESISTORS 220Ω ± 1% 1/4W ERD | NR01221140 |
| ▲ R641 | | 4822 111 91402 | FIXED 0.10Ω x 2 3W | BZ10102010 | ▲ R707 | | 4822 052 10102 | 1kΩ ±5%1/6W | GG05102160 |
| R642 | | 4822 052 10102 | 1kΩ ±5%1/6W | GG05102160 | ▲ R708 | | 4822 052 10102 | 1kΩ ±5%1/6W | GG05102160 |
| R643 | | 4822 052 10102 | 1kΩ ±5%1/6W | GG05102160 | ▲ R709 | | 4822 111 31001 | 330Ω ±5%1/6W | GG05331160 |
| R*** | | P601-RESISTORS (COMMON) CARBON FILM FIXED RES. ±5% 1/6W : R601-R604 R611 | | | ▲ R710 | | 4822 111 31001 | 330Ω ±5%1/6W | GG05331160 |
| | | R612 R620 R625 R626 R644-R647 | | | R713 | | 9965 000 01565 | 68Ω ± 1% 1/4W ERD | NR01680140 |
| D601 | | P601-SEMICONDUCTORS ZENER DIODE HZ20L-1 | | | R714 | | 4822 111 20413 | 220Ω ± 1% 1/4W ERD | NR01221140 |
| | | D602 4822 130 83385 D603 4822 130 32362 30V 0.1A | | | R715 | | 4822 111 20413 | 220Ω ± 1% 1/4W ERD | NR01221140 |
| D604 | | 4822 130 80837 | DIODE HSS81TD 150V 150mA | HD20027010 | R716 | | 4822 111 20413 | 220Ω ± 1% 1/4W ERD | NR01221140 |
| D605 | | 4822 130 32362 | DIODE 1SS176 MA165 1SS254 | HD20002000 | R717 | | 4822 050 23308 | 3.3MΩ ±5%1/6W | GD05335160 |
| 4822 130 32362 | | 30V 0.1A | | | R718 | | 4822 050 23308 | 3.3MΩ ±5%1/6W | GD05335160 |
| D612 | | 4822 130 33948 | ZENER DIODE 5.6V | HD30561000 | R719 | | 4822 050 23308 | 3.3MΩ ±5%1/6W | GD05335160 |
| D613 | | 4822 130 33948 | ZENER DIODE 5.6V | HD30561000 | R721 | Σ | 4822 053 10681 | 680Ω ±5%1W | GA05681010 |
| D614 | | 4822 130 33948 | ZENER DIODE 5.6V | HD30561000 | R724 | | | | |
| D615 | | 4822 130 80837 | DIODE HSS81TD 150V 150mA | HD20027010 | R727 | | 9965 000 01566 | TRIM. VARIABLE 2.2kΩ | RA02220760 |
| D616 | | 4822 130 80837 | DIODE HSS81TD 150V 150mA | HD20027010 | R728 | | 4822 052 10109 | 10Ω ±5%1/6W | GG05100160 |
| D617 | | 4822 130 80837 | DIODE HSS81TD 150V 150mA | HD20027010 | R729 | | 4822 052 10101 | 100Ω ±5%1/6W | GG05101160 |
| K601 | | K601 TRS. KIT 2SA1837 & 2SC4793 HFE SELECTED RANK | | | R730 | | 4822 052 10101 | 100Ω ±5%1/6W | GG05101160 |
| Q601 | | 4822 130 60526 | IC NEW HDAM | HK183719C0 | ▲ R731 | | 4822 050 22209 | 22Ω ±5%1/4W | GG05220140 |
| Q602 | | 4822 130 60526 | TRS. 2SD1508 | HT415080A0 | ▲ R732 | | 4822 050 22209 | 22Ω ±5%1/4W | GG05220140 |
| Q603 | | 4822 130 42949 | TRS. 2SA970 GR OR BL | HT109702A0 | R733 | | 4822 052 10471 | 470Ω ±5%1/6W | GG05471160 |
| Q604 | | 4822 130 43233 | TRS. 2SC2240 GR OR BL | HT322402A0 | R734 | | 4822 052 10471 | 470Ω ±5%1/6W | GG05471160 |
| Q605 | | 4822 130 42949 | TRS. 2SA970 GR OR BL | HT109702A0 | R735 | | 4822 050 26809 | 68Ω ±5%1/6W | GG05680160 |
| Q606 | | 4822 130 43233 | TRS. 2SC2240 GR OR BL | HT322402A0 | R736 | | 4822 050 26809 | 68Ω ±5%1/6W | GG05680160 |
| Q607 | | 4822 130 43283 | TRS. 2SC2705 O OR Y | HT327052A0 | ▲ R737 | | 4822 052 10151 | 150Ω ±5%1/6W | GG05151160 |
| Q608 | | 4822 130 42999 | TRS. 2SA1145 O OR Y | HT111452A0 | R738 | | | JUMPER WIRE 5MM | 75060501PO |
| Q609 | | 4822 130 42999 | TRS. 2SA1145 O OR Y | HT111452A0 | R739 | | 4822 052 10109 | 10Ω ±5%1/6W | GG05100160 |
| Q610 | | 4822 130 43283 | TRS. 2SC2705 O OR Y | HT327052A0 | R740 | | 4822 052 10109 | 10Ω ±5%1/6W | GG05100160 |
| Q611 | | 4822 130 43283 | TRS. 2SC2705 O OR Y | HT327052A0 | ▲ R741 | | 4822 111 91402 | 0.10OHMX2 3W | BZ10102010 |
| Q612 | | 4822 130 42999 | TRS. 2SA1145 O OR Y | HT111452A0 | R742 | | 4822 052 10102 | 1kΩ ±5%1/6W | GG05102160 |
| ▲ Q613 | | 4822 130 63635 | TRS. 2SC4793 O Y | HT347932A0 | R743 | | 4822 052 10102 | 1kΩ ±5%1/6W | GG05102160 |
| ▲ Q614 | | 4822 130 63634 | TRS. 2SA1837 O Y | HT118372A0 | R*** | P701-RESISTORS (COMMON) CARBON FILM FIXED RES. ±5% 1/6W : R701-R704 R711 | | | |
| ▲ Q615 | | 4822 130 60741 | TRS. 2SC3284 O P Y | HT332843D0 | | R712 R720 R725 R726 R744-R747 | | | |
| ▲ Q616 | | 4822 130 63674 | TRS. 2SA1303 O P Y | HT113033D0 | D701 | | 4822 130 83385 | P701-SEMICONDUCTORS | |
| | | | 125W FMG112 | | D702 | | 4822 130 83385 | ZENER DIODE HZ20L-1 | HD30020010 |
| | | | | | D703 | | 4822 130 32362 | ZENER DIODE HZ20L-1 | HD30020010 |
| Q617 | | 4822 130 43233 | TRS. 2SC2240 GR OR BL | HT322402A0 | D704 | | 4822 130 80837 | DIODE 1SS176 MA165 1SS254 | HD20002000 |
| Q618 | | 4822 130 42949 | TRS. 2SA970 GR OR BL | HT109702A0 | D705 | Σ | 4822 130 32362 | 30V 0.1A | HD20002000 |
| | | P701-POWER AMP R CIRCUIT BOARD | | | D712 | | 4822 130 33948 | ZENER DIODE 5.6V | HD30561000 |
| | | P701-CAPACITORS | | | D713 | | 4822 130 33948 | ZENER DIODE 5.6V | HD30561000 |
| C701 | | 9965 000 01560 | FILM 270pF ±5%100V OFC | OF55271540 | D714 | | 4822 130 80837 | DIODE HSS81TD 150V 150mA | HD20027010 |
| C702 | | 4822 121 10867 | FILM 0.1μF ±5%100V OFC | OF55104540 | D715 | | 4822 130 80837 | DIODE HSS81TD 150V 150mA | HD20027010 |
| C703 | | 4822 124 90365 | ELECT. 220μF M 25V RA-2 | OA22702520 | D716 | | 4822 130 80837 | DIODE HSS81TD 150V 150mA | HD20027010 |
| C704 | | 4822 124 90365 | ELECT. 220μF M 25V RA-2 | OA22702520 | D717 | | 4822 130 80837 | DIODE HSS81TD 150V 150mA | HD20027010 |
| C705 | | 9965 000 01561 | MICA 10pF ± 0.5pF 500V FE | DF31100520 | K701 | | P701-RESISTORS (COMMON) CARBON FILM FIXED RES. ±5% 1/6W : R701-R704 R711 | | |
| C707 | /F,/U | 9965 000 02015 | ELECT. 10μF M 100V RA-2 | OA10610020 | Q701 | | R712 R720 R725 R726 R744-R747 | | |
| C707 | I/K,/N,/S | 9965 000 02015 | ELECT. 22μF M 25V ARS | OA22602540 | Q702 | | 4822 130 60526 | TRS. KIT 2SA1837 & 2SC4793 | HK183719C0 |
| C708 | | 4822 124 12276 | FILM 0.01μF ± 5% | OF15103540 | Q703 | | 4822 130 42949 | HFE SELECTED RANK | |
| C710 | | 4822 124 22273 | ELECT. 0.47μF M 50V RA-2 | OA47405020 | Q704 | | 4822 130 43233 | IC NEW HDAM | |
| C711 | | 9965 000 01562 | ELECT 10μF M 50V RA2BP | EQ10605090 | Q705 | | 4822 130 42949 | DARLINGTON TR.HFE>4000 | |
| C712 | | 9965 000 01562 | ELECT 10μF M 50V RA2BP | EQ10605090 | Q706 | | 4822 130 43233 | TRS. 2SC2240 GR OR BL | |
| C713 | /F,/U | 9965 000 02014 | ELECT. 330μF M 50V RA-2 | OA33705020 | Q707 | | 4822 130 43283 | TRS. 2SC2705 O OR Y | |
| C713 | I/K,/N,/S | 9965 000 02014 | ELECT. 220μF M 50V ARS | OA22705040 | Q708 | | 4822 130 42999 | TRS. 2SA1145 O OR Y | |
| C714 | /F,/U | 9965 000 02014 | ELECT. 330μF M 50V RA-2 | OA33705020 | Q709 | | 4822 130 42999 | TRS. 2SA1145 O OR Y | |
| C715 | I/K,/N,/S | 9965 000 01564 | ELECT. 220μF M 50V ARS | OA22705040 | Q710 | | 4822 130 43283 | TRS. 2SC2705 O OR Y | |
| | | 9965 000 01564 | FILM 680pF ±5%100V OFC | OF55681540 | Q711 | | 4822 130 42999 | TRS. 2SA1145 O OR Y | |
| | | | | | Q712 | | 4822 130 42999 | TRS. 2SC2705 O OR Y | |

| POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) | POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) |
|---------|-------------|--------------------|---|----------------|----------------|-------------|--------------------|---------------------------|----------------|
| ▲ Q713 | | 4822 130 63635 | TRS. 2SC4793 O Y | HT347932A0 | ▲ D801 | | | P801-SEMICONDUCTORS | |
| ▲ Q714 | | 4822 130 63634 | TRS. 2SA1837 O Y | HT118372A0 | 4822 130 80839 | | | DIODE S5688G | HD20029050 |
| ▲ Q715 | | 4822 130 60741 | TRS. 2SC3284 O P Y | HT332843D0 | ▲ D808 | | | VRM=400V I0=1A | |
| | | | 125W FMG112 | | D809 | | | ZENER DIODE HZ24-2L | HD30012010 |
| Q716 | | 4822 130 63674 | TRS. 2SA1303 O P Y | HT113033D0 | D810 | | | ZENER DIODE HZ24-2L | HD30012010 |
| | | | 125W FMG112 | | D811 | | | DIODE S5688G | HD20029050 |
| Q717 | | 4822 130 43233 | TRS. 2SC2240 GR OR BL | HT322402A0 | D812 | | | VRM=400V I0=1A | HD20029050 |
| Q718 | | 4822 130 42949 | TRS. 2SA970 GR OR BL | HT109702A0 | ▲ D813 | | | DIODE S5688G | HD20029050 |
| | | | P801-POWER SUPPLY & PROTECTOR CIRCUIT BOARD | | ▲ D814 | | | VRM=400V I0=1A | HD20029050 |
| | | | P801-CAPACITORS | | D815 | | | DIODE S5688G | HD32401000 |
| C801 | | 9965 000 01577 | ELECT 1800 μ F 50V FOR AUDIO | EB18805020 | ▲ D816 | | | VRM=400V I0=1A | HD20029050 |
| C802 | | 9965 000 01577 | ELECT 1800 μ F 50V FOR AUDIO | EB18805020 | ▲ D817 | | | EQUIVALENT | HD20029050 |
| C805 | | 4822 124 90355 | ELECT. 100 μ F M 50V RA-2 | OA10705020 | D818 | | | DIODE S5688G | HD20029050 |
| C806 | | 4822 124 90355 | ELECT. 100 μ F M 50V RA-2 | OA10705020 | ▲ D819 | | | VRM=400V I0=1A | HD20029050 |
| C807 | | 4822 124 90366 | ELECT. 220 μ F M 50V RA-2 | OA22705020 | D820 | | | DIODE S5688G | HD20029050 |
| C808 | | 4822 124 90366 | ELECT. 220 μ F M 50V RA-2 | OA22705020 | D901 | | | VRM=400V I0=1A | HD20029050 |
| C809 | | 4822 124 41542 | ELECT. 470 μ F M 50V RA-2 | OA47705020 | D902 | | | DIODE HSS81TD 150V 150mA | HD20027010 |
| C810 | | 4822 124 41535 | ELECT. 100 μ F M 25V RA-2 | OA10702520 | D951 | | | DIODE HSS81TD 150V 150mA | HD20027010 |
| C811 | | 4822 124 90366 | ELECT. 220 μ F M 50V RA-2 | OA22705020 | D952 | | | DIODE ISS176 MA165 1SS254 | HD20002000 |
| C812 | | 4822 124 90355 | ELECT. 100 μ F M 50V RA-2 | OA10705020 | ▲ Q801 | | | 30V 0.1A | |
| C813 | | 4822 124 41534 | ELECT. 10 μ F M 25V RA-2 | OA10602520 | ▲ Q802 | | | ZENER DIODE 5.6V | HD30561000 |
| C814 | | 4822 124 41543 | ELECT. 1 μ F M 50V RA-2 | OA10505020 | Q803 | | | EQUIVALENT | |
| C815 | | 4822 124 41543 | ELECT. 1 μ F M 50V RA-2 | OA10505020 | Q804 | | | IC NJM78M06FA | HC38506090 |
| C816 | | 4822 124 12276 | FILM 0.01 μ F \pm 5% | OF15103540 | ▲ Q805 | | | IC TA7317P | HC10042050 |
| C901 | | 4822 124 12276 | FILM 0.01 μ F \pm 5% | OF15103540 | Q806 | | | F.E.T. 2SK246 GR | HF202461C0 |
| C902 | | 4822 124 22698 | ELECT. 47 μ F M 25V RA-2 | OA47602520 | ▲ Q807 | | | PC=1.2W 5W | HF202461C0 |
| C903 | | 4822 122 40617 | CER. 0.1 μ F +8%-20% DC50V | DD38104010 | Q901 | | | IC NJM2904 DUAL OP-AMP | HC10030090 |
| C904 | | 5322 124 21731 | ELECT. 10 μ F M 50V RA-2 | OA10605020 | Q951 | | | HF202461C0 | |
| C905 | | 4822 124 22698 | ELECT. 47 μ F M 25V RA-2 | OA47602520 | ▲ Q801 | | | TR. 2SD1415 | HT41415100 |
| C906 | | 4822 124 22273 | ELECT. 0.47 μ F M 50V RA-2 | OA47405020 | ▲ Q802 | | | TR. 2SB1020 | HT21020100 |
| C907 | | 9965 000 01575 | FILM 0.039 μ F \pm 5%100V OFC | OF55393540 | Q803 | | | F.E.T. 2SK246 GR | HF202461C0 |
| C908 | | 9965 000 01575 | FILM 0.039 μ F \pm 5%100V OFC | OF55393540 | ▲ Q804 | | | F.E.T. 2SK246 GR | HF202461C0 |
| C909 | /K,N,S | 4822 124 12276 | FILM 0.01 μ F \pm 5% | OF15103540 | Q805 | | | TR. 2SD1415 | HT41415100 |
| C910 | /K,N,S | 4822 124 12276 | FILM 0.01 μ F \pm 5% | OF15103540 | Q806 | | | TR. 2SK246 GR | HF202461C0 |
| C951 | | 4822 122 40617 | CER. 0.1 μ F +8%-20% DC50V | DD38104010 | ▲ Q807 | | | IC NJM78M06FA | HC38506090 |
| C952 | | 4822 124 41543 | ELECT. 1 μ F M 50V | OA10505020 | Q901 | | | IC TA7317P | HC10042050 |
| C953 | | 4822 124 41535 | ELECT. 100 μ F M 25V RA-2 | OA10702520 | Q951 | | | F.E.T. 2SK246 GR | HF202461C0 |
| | | | P801-RESISTORS | | ▲ Q801 | | | TR. 2SD1415 | HT41415100 |
| ▲ R801 | | 4822 050 21108 | 1 Ω \pm 5%1/2W | GG05010120 | ▲ Q802 | | | TR. 2SB1020 | HT21020100 |
| ▲ R802 | | 4822 050 21108 | 1 Ω \pm 5%1/2W | GG05010120 | Q803 | | | F.E.T. 2SK246 GR | HF202461C0 |
| ▲ R803 | | 4822 052 10101 | 100 Ω \pm 5%1/6W | GG05101160 | ▲ Q804 | | | F.E.T. 2SK246 GR | HF202461C0 |
| ▲ R804 | | 4822 052 10101 | 100 Ω \pm 5%1/6W | GG05101160 | Q805 | | | TR. 2SD1415 | HT41415100 |
| ▲ R807 | | 4822 050 24708 | 4.7 Ω \pm 5%1/4W | GG05047140 | Q806 | | | TR. 2SK246 GR | HF202461C0 |
| ▲ R808 | | 4822 050 24708 | 4.7 Ω \pm 5%1/4W | GG05047140 | ▲ Q807 | | | IC NJM78M06FA | HC38506090 |
| ▲ R809 | | 4822 117 10158 | 1 Ω \pm 5%1/4W | GG05010140 | Q901 | | | IC TA7317P | HC10042050 |
| ▲ R810 | | 4822 052 10101 | 100 Ω \pm 5%1/6W | GG05101160 | Q952 | | | F.E.T. 2SK246 GR | HF202461C0 |
| ▲ R812 | | 4822 050 24708 | 4.7 Ω \pm 5%1/4W | GG05047140 | Q953 | | | TR. 2SD1415 | HT322402A0 |
| ▲ R813 | | 4822 113 90119 | FUSE 22 Ω G 1/4W | NF02220140 | Q954 | | | TR. 2SK246 GR | HF202461C0 |
| ▲ R814 | | 4822 113 90119 | FUSE 22 Ω G 1/4W | NF02220140 | Q955 | | | PC=1.2W 5W | HF202461C0 |
| ▲ R816 | | 4822 052 10478 | 4.7 Ω \pm 5%1/6W | GG05047160 | ▲ G801 | | | IC NJM2904 DUAL OP-AMP | HC10030090 |
| ▲ R818 | | 4822 053 10339 | 33 Ω \pm 5%1W | GA05330010 | Q952 | | | HF202461C0 | |
| ▲ R819 | | 4822 053 10339 | 33 Ω \pm 5%1W | GA05330010 | Q953 | | | TR. 2SD1415 | HT41415100 |
| R913 | | 4822 053 10109 | 10 Ω \pm 5%1W | GA05100010 | Q954 | | | TR. 2SK246 GR | HF202461C0 |
| R914 | | 4822 053 10109 | 10 Ω \pm 5%1W | GA05100010 | Q955 | | | IC NJM2904 DUAL OP-AMP | HC10030090 |
| R917 | | 4822 053 10331 | 330 Ω \pm 5%1W | GA05331010 | ▲ G801 | | | HF202461C0 | |
| R918 | | 4822 053 10331 | 330 Ω \pm 5%1W | GA05331010 | Q952 | | | TR. 2SD1415 | HT41415100 |
| R951 | | 4822 052 10109 | 10 Ω \pm 5%1/6W | GG05100160 | Q953 | | | TR. 2SK246 GR | HF202461C0 |
| R*** | | | P801-RESISTORS (COMMON) | | ▲ G801 | | | IC NJM2904 DUAL OP-AMP | HC10030090 |
| | | | CARBON FILM FIXED RES. | | Q954 | | | HF202461C0 | |
| | | | \pm 5% 1/6W : R805 R806 R811 | | Q955 | | | | |
| | | | R815 R817 R901-R912 R923 | | Q956 | | | | |
| | | | R952-R959 | | Q957 | | | | |

| POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) |
|-------------------|-------------|----------------------------------|--|--------------------------|
| ▲ J871 | /F,/U | 482226731417 | P871-AC-OUTLET CIRCUIT BOARD [I/F,/U VERSION] JACK AC OUTLET CCT1306-0212 | YJ04001840 |
| ▲ C891 S891 | | 4822 121 43732 4822 276 12647 | P891-POWER SW CIRCUIT BOARD FILM 0.1 μ F M 250V AC PUSH SW. POWER ESB-99753V-4 TV-8 | DF77103500 SP01011470 |
| RM09 | | 4822 100 20681 | PM01-HDAM CIRCUIT BOARD FOR Q501 Q502 Q601 Q701 PM01-RESISTOR TRIM. 2.2k Ω RH0638C14R | RA02220780 |
| <u>R***</u> | | | PM01-RESISTORS (COMMON) CARBON FILM FIXED RES. $\pm 5\%$ 1/6W : RM01-RM08 | |
| DM01 S DM05 | | 4822 130 32362 | PM01-SEMICONDUCTORS DIODE 1SS176 A165 1SS254 30V 0.1A | HD20002000 |
| QM01 | | 5322 130 41844 | F.E.T. 2SK170 BL VGDS=-40V PD=0.4V | HF201701G0 |
| QM02 | | 5322 130 41844 | F.E.T. 2SK170 BL VGDS=-40V PD=0.4V | HF201701G0 |
| QM03 | | 4822 130 43233 | TRS. 2SC2240 GR OR BL | HT322402A0 |
| QM04 | | 4822 130 42949 | TRS. 2SA970 GR OR BL | HT109702A0 |
| QM05 | | 4822 130 42949 | TRS. 2SA970 GR OR BL | HT109702A0 |
| QM06 | | 4822 130 43233 | TRS. 2SC2240 GR OR BL | HT322402A0 |